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A partial index to selected outdoor recreation literature received by the Department of the Interior Library during late 1966 and the first six months of 1967 provides 847 abstracts which are retrievable by subject, name, and geographic indexes. Subject categories include outdoor recreation resources, administration of resources and programs, recreation users' demands and values, research, history, and philosophy. An appendix of periodicals indexed is included. Related documents are RC 002 597, RC 002 598, RC 002 600. (VM)



DEPARTMENT OF THE INTERIOR Bureau of Outdoor Recreation

**INDEX TO SELECTED
OUTDOOR RECREATION LITERATURE**

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Volume II

**Published
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Bureau of Outdoor Recreation
and
Department of the Interior Library**

PREFACE

This second compilation of abstracts of articles, books, conference proceedings, directories, documents, reports, speeches, yearbooks, and bibliographies of outdoor recreation literature covers materials received at the Interior Department late in 1966, and through the first six months of 1967. It is the successor publication to Volume I of the INDEX TO SELECTED OUTDOOR RECREATION LITERATURE published by the Bureau of Outdoor Recreation in collaboration with the Department of the Interior Library. Abstracts of Canadian and United Kingdom articles were made possible through the continuing cooperation of Canada's Department of Indian Affairs and Northern Development.

Arrangement is by five broad categories into which outdoor recreation literature may be classified. These appear in the Table of Contents. Within each category, the citations are arranged alphabetically by author, or, if the work is anonymous, by title.

Each citation bears an item number beginning with the number 70000. The first digit, 7, represents the year, 1967. The remaining four digits indicate citation item numbers. There are 848 citations; the numbers range from 70000 to 70847.

Sources Listed

The literature cited is listed by form in the appendices. Appendix I contains the list of periodicals abstracted for this volume. Appendix II contains publications other than periodicals also abstracted. These include books, documents, technical reports, conference proceedings, speeches, yearbooks, bibliographies, and directories.

How to Use

The abstracts may be located by consulting the indexes printed in the sections which follow the last citation. They provide several points of access to the material. There are three separate indexes:

1. Subject Index. Approximately 525 key words refer to citations by item numbers. Each citation may have as few as two, or as many as eighteen, descriptors or key words. In this volume, the average number of key words per citation is seven.
2. Name Index. This contains authors, editors, corporate bodies, and persons responsible for or discussed in the articles, and all other proper names except place names, which appear in the Geographic Index.

3. Geographic Index. This refers to citations by countries, regions, States, counties, cities, rivers, as well as by proper names of units administered by Federal and State agencies, and miscellaneous geographic terms.

Suggested Changes

Readers are invited to send their suggestions for improvement of the INDEX. Several changes suggested earlier have been incorporated into this edition. Others are planned for subsequent issues. Additional sources of technical and scientific writings on outdoor recreation subjects are welcomed.

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OUTDOOR RECREATION RESOURCES

70000 Amos, W.H. THE LIFE OF THE SEASHORE. New York, McGraw Hill. 231p. 1966. Ref., map, photos.

Presents articles on marine and aquatic biology with extensive use of biophotos. The ecology of the seashore produces an abundance of life, depicted as a flow of life energy from vegetation through the lower life forms, such as crustaceans to higher forms such as birds and mammals. The appendix contains a list of seashore areas of the National Park System, National Wildlife Refuges, and vanishing animals of the seashore. QH91.5 A4

70001 The Appalachian Trail. TENN. CONSERV. 33(3):14, Mar. 1967.

Information is provided about the complete Appalachian Trail in general and the hike between Roan Mountain in the northeastern corner of Tennessee and Newfound Gap at the top of the Smoky Mountains just east of Gatlinburg in particular.

70002 Arno, S.F. Some animals of Olympic Park. NAT. PARKS MAG. 41(234):10-14, Mar. 1967. Photos.

The visitor to Olympic National Park may see Roosevelt elk, Olympic marmot, mountain goat, blue grouse, black-tailed deer, cougar, bushy-tailed woodrat, coyote, black bear, and grizzlies. With 140 varieties of birds in the region, the visitor may see or hear bald eagles, gray jays, Cooper's hawks, red-tailed hawks, ravens, king-sized crows, and numerous songbirds. This article presents the variety of wildlife of the Olympic Peninsula.

70003 Ash, C. Year round bushy-tails. WEST. OUTD. 13(10):26-27, 51, Oct. 1966. Map, photos.

This article provides information about several species of squirrels which are found in the southwestern section of the United States and includes hunting data.

70004 Back yard trout ponds. SOIL CONSERV. 32(8):177-178, Mar. 1967. Photos.

Trout farms in Michigan are proving popular. Residents of the State are using trout ponds to bring in extra tourist money in a variety of ways. Installations are described.

70005 Barnard, B. If you really want to see the desert, travel the back roads. DESERT, 30(3):26-27, Mar. 1967. Map, photos.

Little visited back country in Joshua Tree National Monument is a spot of real beauty and solitude. Some of the old mines and legends of the area are described.

70006 Barnard, B. Plan now for the Canyonlands. DESERT, 30(5):6-8, May 1967. Map, photos.

Methods for exploring Canyonlands National Park are discussed and various routes and outlook points described.

70007 Barnes, I.R. The bald eagle--symbol of greatness or of doom? ATLANT. NATUR. 21(4):159-160, Oct.-Dec. 1966. Illus.

Steps have been taken to save the bald eagle from extinction. More needs to be done. The author describes additional measures which should be taken. From a symbol of national greatness, the eagle, in its present endangered state, is symbolic of environmental pollution.

70008 Barnes, I.R. Perspectives. Rare and endangered species. ATLANT. NATUR. 22(1):3-4, 25, Jan.-Mar. 1967.

The plight of the now rare peregrine falcon is thoroughly explored. Stated reasons for its decline are pesticide poisons, molesting of falcon nests by man, and shooting by hunters and farmers. Treated also in this article are the survival problems of the whooping crane. Oil pollution becomes a new threat.

70009 Benson, J. Chicago landmarks. HIST. PRESERV. 18(4):154-155, July-Aug. 1966. Photos.

No abstract.

70010 Biscayne National Monument (proposed). IZAAK WALTON MAG. 31 (12):4-5, Dec. 1966. Map.

With the cooperation of conservation agencies and counties, Director George B. Hartzog, Jr., National Park Service states the proposed Biscayne National Monument in Florida, can be developed and enjoyed for maximum public use. Elliot Key Park, a 90 acre primitive area, has been proposed for future inclusion in the National Monument. Development and facilities for this plan are discussed.

70011 Boelio, B. These are important. MOT. NEWS, 49(8):10-11, 26-28, Feb. 1967. Photos.

Historic buildings in Michigan and their preservation by the Michigan Historical Commission and the Historic American Buildings Survey are discussed.

70012 Bonney, O.H., Bonney, L.G. BONNEY'S GUIDE. GRAND TETON NATIONAL PARK AND JACKSON'S HOLE. Houston, The authors. 144p. 1966. Illus., photos.

The guide presents the story of the region's natural and human history, describes the many opportunities for outdoor recreation and contains information on visitor facilities and services. It guides travelers along historic trails and includes the story of how part of this beautiful region was set aside as part of the National Park System, and of the vital role of John D. Rockefeller, Jr., in achieving that goal. F767 T3B6

70013 Brown, P.K. Land of contentment. MOT. NEWS, 49(8):8-9, Feb. 1967. Photos.

In part 6 of the "How to See California," Point Reyes National Seashore, its Bear Valley, wilderness area, wildlife, trails, beaches and accessibility are discussed.

70014 Burnham, A., Gilbert, F. New York City landmarks. HIST. PRESERV. 18(4):152-153, July-Aug. 1966. Photos.

No abstract.

70015 Burrier, T. Big Bend on the border. TRAIL. LIFE, 27(3): 72-73, 149-152, Mar. 1967. Map, photos.

An account is given of Big Bend National Park in Texas, its animal and plant life, recreation resources and the surrounding area.

70016 Burrier, T. Crater Lake National Park. TRAIL. LIFE, 27(2):58-59, 94-96, Feb. 1967. Map, photos.

Crater Lake's unique beauty offers the superlative grandeur of wilderness. Only the minimum facilities necessary for enjoyment of the area will be permitted.

70017 Burrier, T. Glacier National Park. TRAIL. LIFE, 26(11):42-43, 83, 91-92, Nov. 1966. Map, photo.

The wilderness areas, foot trails, and wildlife refuges of the Park still remain preserved even though the area offers recreational activities. The reserve has over 1,000 miles of footpaths and wilderness trails.

70018 Burrier, T. Olympic National Park. TRAIL. LIFE, 26(12):56-57, 95-97, Dec. 1966. Map, photos.

Describes the natural beauty of Olympic National Park and facilities provided to the public for use and enjoyment.

70019 Burrier, T. Shenandoah. TRAIL. LIFE, 27(1):64-65, 113-117, Jan. 1967. Map, photos.

An informative article about Shenandoah National Park, dedicated to "present and future generations of Americans for the recreation and the re-creation" they would find there. Facilities, fees, and interpretive services are mentioned.

70020 Byrd, R.C. Spruce Knob-Seneca Rocks National Recreation Area. NAT. PARKS MAG. 40(231):8-10, Dec. 1966. Map, photos.

The new Spruce Knob-Seneca Rocks National Recreation Area in the Monongahela National Forest of West Virginia was authorized in 1965. Potential recreation activities are hiking, swimming, sightseeing, fishing and canoeing. The area is not too distant from population centers.

70021 Callison, C.H., ed. AMERICA'S NATURAL RESOURCES. Revised printing. New York, Ronald. 220p. 1967. Ref.

This is a collection of articles by specialists in resource management. Abstracts for selected articles appear under the individual author. S930 C3 1967

70022 Campbell, T.H. A trail of two states. APPALACH. TRAILW. NEWS, 28 (1):10, Jan. 1967.

Section 6 of the Appalachian Trail is being readied for completion. The details and problems of the trail from Stony Creek Valley to New River in the States of Virginia and West Virginia, are discussed.

70023 Cantwell, R. A mighty long run from Cornwall to Oswego. SPORTS ILLUS. 25(21):E5-E8, Nov. 21, 1966. Photo.

In the late 1800's the O. & W. Railway opened up some of the Catskill Mountain wilderness areas for vacationers. The O. & W. became an abandoned right-of-way, long since bypassed by the freeways. Since the old right-of-way runs along such good fishing streams as the Beaverkill and the Neversink, and meanders through very scenic countryside, it beckons to hikers, cyclists, and fishermen. Now outdoor recreation enthusiasts would like to use the railroad roadbed for a hiking, cycling and horseback path.

70024 Caras, R.A. LAST CHANCE ON EARTH. A REQUIEM FOR WILDLIFE. Philadelphia, Chilton Books. 209p. 1966. Ref., illus.

Observations and data are provided for forty animals which are or were recently in danger of disappearing. Man is a legitimate heir to his natural heritage, but his ignorance can no longer be accepted in defense. The future of wildlife on this planet will be determined irrevocably before the dawn of the twenty-first century. QL88 C3

70025 Carlson, C.W. Kent Island and Sandy Point Park. ATLANT. NATUR. 22 (1):13-19, Jan.-Mar. 1967. Maps, photos.

Minute descriptions of and directions to good birdwatching places are provided, including which kinds of birds to seek where.

70026 Cedar Rapids Garden Club. The vista. GARD. CLUB AMER. BULL. 55(1):30-31, Jan. 1967.

Located in gently rolling farmland near the Quaker Village of West Branch, Iowa, the Herbert Hoover National Historic site offers a corner of prairie and a source of history for the tourist. At the site are the Presidential Library, Birthplace Cottage, the Meeting House and graves. President Hoover's desire for the creation of a Vista between the door of his cottage birthplace and the site of his grave is being executed by the Garden Club of America in collaboration with the National Park Service. Plans for the development are given.

70027 Cermak, R.W. The Ancient Bristlecone Pine Forest. NAT. PARKS MAG. 40(226):5-8, July 1966. Map, photos.

The bristlecone pines native to regions of high altitude in the Southwestern U.S., record climatic changes of past geologic ages. Scientists have been able to determine the age of several bristlecone pines to be over 4,000 years old by analysis of the tree rings.

70028 Cerveri, D. What-ho southern Nevada! DESERT, 30(5):17-20, May 1967. Photos.

Trips of interest into desert areas may be taken from Las Vegas. Lake Mead and Lake Mohave provide fishing and water sports; beaches; campsites; areas of interesting geological formations and petroglyphs. The Newberry Mountains exhibit strange rock formations and are the habitat of unusual desert creatures. Refreshing drives may be taken to interesting canyons and old mining sites. The spectacular views, points of historical interest, camping and picnicking facilities and accommodations are described.

70029 Cheatum, E.L. Renewing our resource environment. A critique and appraisal of the 31st North American Wildlife and Natural Resources Conference. In North American Wildlife and Natural Resources Conference, 31st, Pittsburgh, Pa., 1966. TRANSACTIONS. Washington, Wildlife Management Institute. p.460-470, 1966.

The conference summarizer evaluated the general and technical sessions. The general session focused on the cleansing of air, water, and countryside. Technical sessions covered inland, coastal and marine resources; disease, nutrition and control; forest and range resources; field and farm resources; outdoor recreation programs; conservation information and education; and the meeting of urbanization and resource pressures. Problems presented in these areas were defined, analyzed, and in some instances, solved or in the process of being solved. In all cases, more still needed to be done and numerous recommendations were made. The critique is concluded with an inspirational challenge for the conferees. SK351 N872 1966

70030 Christopherson, E. ADVENTURE AMONG THE GLACIERS. Missoula, Mont., Earthquake Press. 88p. 1966. Map, illus., photos.

Descriptive information, advice, and adventure stories are presented about Glacier National Park, called by John Muir "the greatest care-killing scenery on the North American continent." F737 G5C4

70031 The clear blue lake. Lake Havasu. ARIZ. WILDL. SPORTS. 38(3): 45-49, Mar. 1967. Map, photos.

Describes the recreational facilities and accommodations at Havasu Lake.

70032 Clepper, H. Homage to Basswood Lake. AMER. FOR. 73(3):24-27, 47-48, Mar. 1967. Photos.

In the heart of the Boundary Waters Canoe Area is a wildly picturesque body of water, Basswood Lake. Even after three centuries of exploration and visitation, Basswood Lake still offers attractions hard to come by in these times--immensity of open sky and vast expanse of wildland and clear water.

70033 Clift, J. Fabulour Eufaula! SOUTHW. HOL. 20(7):8-9, 30-36, July 1966. Maps, photos.

The recreational facilities, accommodations and surrounding areas of the man-made body of water between Oklahoma City and Dallas is described.

70034 Contor, R.J. The proposed Tutimba Wilderness of the Craters of the Moon National Monument. LIV. WILDERN. 30(95):3-10, Winter, 1966/1967. Photos.

The National Park Service has proposed that some 40,800 acres of the Craters of the Moon National Monument, the Tutimba area, be managed as a unit of the National Wilderness Preservation System. The proposed wilderness offers geologic curiosities, archeological structures and sites, a suprisingly rich fauna, and vegetative cover of special importance to science. Special features of this area are described.

70035 Cornish, G.S., Robinson, W.G. The country club look for public golf courses. PARKS RECREAT. 2(5): 28-29, 48-49, May 1967. Illus.

Two golf course architects explain how public golf courses can be designed and maintained to have both landscape appeal and durability and present an exciting challenge to nearly every kind of golfer.

70036 Craddock, F. Florida's miracle strip. CAMP. GUIDE, 44:16-20, 76, June 1966. Photos.

The pan-handle of Florida is a relatively new playground for the camping clan. Ft. Pickens State Park with fine facilities, sandy beaches, and good fishing also contains an historic fort to visit. Pensacola Beach, Navarre and Black Water Forest are nearby. St. Andrews offers good facilities and camping on the Gulf with water skiing in Grand Lagoon Bay. The Gulfarium in Ft. Walton Beach offers an underwater view of fish. Some private campgrounds for tents and trailers are available in this region.

70037 Crockett tavern opens Indian trail. TENN. CONSERV. 33(3):10, Mar. 1967. Photos.

Pioneer days of Davy Crockett seem alive again in this reproduction of the original 18th century Crockett Tavern which stood by an old Indian trail on the edge of the wilderness. In back of this log cabin tavern is a Conestoga wagon. In its basement rooms is an excellent museum filled with tools, implements and household furnishings of the period used by pioneer neighbors of the Crocketts.

70038 Dalrymple, B.W. Hunting U.S. deserts. SPORTS AFIELD, 157(3):46-47, 118-120, Mar. 1967. Photos.

Desert areas in the U.S. have an abundance of game and wildlife and make good hunting areas. A description is given of the terrain and locations of various desert areas and the equipment and clothing necessary for hunting there.

70039 Dennis, J.V. The Potomac's Harrison Island and its changing birdlife. ATLANT. NATUR. 21(4):169-176, Oct.-Dec. 1966. Ref., map, photos.

There are many facets to engage the attention of the wildlife enthusiast--Canada geese, ring-billed gulls, deer, and a few fox squirrels on Harrison Island, Maryland. First recordings of summer bird-life were made in 1950. Birds have been grouped into the following categories: common nesting birds, uncommon nesting birds, sporadic nesters, recently established nesting birds, expected visitors, and unexpected visitors.

70040 Doclar, E. The Great Smokies. Adventures in scouting. BOY'S LIFE, 57(1):40-43, Jan. 1967. Photos.

The Great Smoky Mountains National Park is a favorite place for Boy Scouts to hike and camp. The scenic beauty, interesting heritage and other assets that make it interesting are described.

70041 Eason, A. Boat roads paved into Caddo. SOUTHW. HOL. 20(12): 18-19, Dec. 1966. Photos.

Boat roads now have been cleared on Caddo Lake under the supervision of the Texas Parks and Wildlife Department. Southwestern sportsmen have long favored it as a fishing and hunting lake; now will come pleasure boaters, artists, and photographers.

70042 Easton, P. A dream comes true. AMAT. ATHL. 37(12):8-9, Dec. 1966. Photos.

Ground-breaking ceremonies for the Swimming Hall of Fame in Fort Lauderdale, Fla. took place on December 28. The Hall, under control of the Swimming Hall of Fame, Inc., will include swim stadium pools, an auditorium-exhibit hall, and a library. A schedule of events is given for the Hall of Fame International meet.

70043 Embree, C. Onondaga builds a trail. ADIRONDAC, 31(2):26-27, Mar. - Apr. 1967. Map.

The "Onondaga Trail" part of the Finger Lakes Trail System near Syracuse, N.Y. was opened on May 7, 1967. The Finger Lakes Trail will total 650 miles of footpaths and eventually

will stretch from the Catskills to the Allegheny Mountains and connect with the Appalachian Trail, the Long Trail, and the Bruce Trail of Canada.

70044 Fascell, D.B. Preserving an island paradise. AMER. FOR. 73(3): 32-33, 50, Mar. 1967. Photos.

Rep. Dante B. Fascell (D-Fla.) is sponsor of H.R. 551, a bill to establish Biscayne National Monument in Upper Florida Keys. In this article he gives the reasons that national monument status will help to preserve this island paradise.

70045 Ferguson, K. Our undiscovered free campsites. MOT. NEWS, 49(9): 20-21, 24-25, Mar. 1967. Photos.

Free campsite areas are available on waterfront sites on Lake Michigan. The campgrounds are usually small and provide few necessities but offer peace and quiet, fine beaches and fishing. Information sources on locations of state forest campgrounds are also listed.

70046 Fine, I.V., Tuttle, R.E. COMMERCIAL ENTERPRISES PROVIDING TOURIST AND TRAVEL OVERNIGHT ACCOMMODATIONS. Madison, Wisconsin State Dept. of Resource Development. 32p. 1966. Maps, tables.

Summarizes the findings of a survey of overnight accommodations in Wisconsin. Compares the changes since 1958 by size of facility, all year or seasonal use and county where located. Projections are made to 1980.

70047 Finn, M.A. Humans, plants and animals in Florida's Fahkahatchee Strand. NAT. PARKS MAG. 40(226): 10-13, July 1966. Map, photos.

The abundance of trees and flowers which provide ideal habitat for a variety of birds and animals, make the Fahkahatchee Strand, a swamp forest in Southwest Florida a unique natural area worthy of consideration for a National Monument. In an effort to forestall development by a giant real estate subdivision firm, a group of civic organizations and individuals have joined together to save Fahkahatchee.

70048 Fish outside, folks inside. AMUSE. BUS. 78(47):34, Nov. 26, 1966.

The director of the Pacific Science Center, Seattle, Wash. suggests Puget Sound lend itself as an aquarium from which live T.V. programs from underwater observation chambers could be made. The Sound's abundant sea life could promote research.

70049 Fix, J. Florida's walking forests. FLA. WILDL. 21(1):24-26, June 1967. Photos.

Like a huge spider the land-building red mangrove stalks into the sea and helps provide for some of the finest sport fishing in the world.

70050 Fix, J. Koreshan State Park. FLA. WILDL. 20(9):28-31, Feb. 1967.

Koreshan Park donated to the State of Florida by a religious group, Koreshan Unity, contains a superb collection of exotic plants gathered

from tropical and sub-tropical lands throughout the world. Within the park the ancient communal dwellings of the Koreshans are being restored to their original state. The park has camping, picnicking, and playground facilities.

70051 Ford, W. Along an ancient trail today. DESERT, 30(5):21-24, May 1967. Map, photos.

Adventure awaits along the Borrego section of romantic Anza Trail where the hiker can wander over ancient campsites, climb a granite-covered ridge or get an unparalleled view of the desert. Descriptions of the trails and legends of lost mines, mysterious roving lights and buried silver stolen from an ambushed wagon train are provided.

70052 Fourteen new sites declared eligible for registration as Natural Landmarks. NAT. PARKS MAG. 40(226): 20, July 1966. Photo. The National Parks Advisory Board recommended, and Secretary of the Interior Stewart L. Udall approved, 14 sites to be added to the existent 54 under Registered Natural Landmark program initiated in 1964. The new sites are listed.

70053 Fradin, M. Washington's "Rhine"? AMER. FOR. 73(5):22-25, 40, 41, May 1967. Photos.

Languishing Glen Echo Amusement Park, situated on the outskirts of Washington in Montgomery County, Md., may become a new recreation area. Present owners may trade the site for unneeded Federal land in Florida. Since the area also contained the home of Clara

Barton, founder of the American Red Cross, a Clara Barton National Park is proposed for the site. Ten suggestions for the development of facilities and activities in the park are outlined. A bold imaginative American design for this now-deserted famous park is desired so that the site may become an American version of Copenhagen's Tivoli.

70054 Franson, J.L. Heaven or hell for Apostles? Struggle begins to save island jewels. BADG. SPORTS. 23(10):1, 16, May 1967.

The first in a series of three articles on the Apostle Islands proposed National Lakeshore in northern Wisconsin covers the history of the Islands, an account of their natural resources, and the vital need for protective measures.

70055 Frome, M. NATIONAL PARK GUIDE. Chicago, Rand McNally. 160p. 1967. Maps, photos.

This is a complete guidebook to all the national parks with special sections on the National monuments, seashores, recreation areas, parkways, and historic sites. It contains information on activities, accommodations, special trips in the 32 national parks; describes 77 national monuments (including archeology monuments, nature monuments, and national monuments) to national parkways, and 6 national recreation areas. Besides descriptive matter, the guidebook provides practical advice and a National Parks and Monument Map. SB482 A1F7

70056 Gartner, J. Out west. WEST. OUTD. 13(12):3-4, Dec. 1966.

Discusses the creation of the proposed Redwood National Park in California. The author recommends that the Federal administration's proposal to acquire two state parks and Mill Creek watershed between them, and a separate unit of 1400 acres along Redwood Creek would be a compromise solution between the conservationists and the forest products industry.

70057 Gillam, H.L. Fishing hot spots. VA. WILDL. 27(7):8-9, 20-21, July 1966. Map, photos.

Describes eight new reservoirs and lakes completed by the Virginia Game Commission. These new resources have increased fishing enjoyment and opportunities close to fishermen's homes.

70058 Gillespie, J. Portable swimming pools. PARKS RECREAT. 2(5): 22, May 1967. Photo.

Students at the University of Wyoming have produced a portable, maintenance-free swimming pool. By using the street surface as the pool bottom and designing lightweight fiberglass sides, they devised a simple and inexpensive structure. The street curbing braces the ends of the pool and the sides are wedged into narrow slits made in the pavement. The pool is filled from a fire hydrant and is drained into the storm sewer. Since the pool is easily set up in the street, any city could temporarily close off part of a street to local car traffic and thereby convert it into a pleasant use for the whole neighborhood.

70059 Guymon, M. The big thermocline mystery. WEST. OUTD. 14(1): 34-35, 59, Jan. 1967. Illus., photos.

This explanation of the thermocline, the middle layer of the three which form when a lake stratifies, will aid fishermen in their summer and winter fishing.

70060 Hagen, A. Klutina Lake. ALASKA SPORTS. 33(3):34-35, 42, Mar. 1967. Photos.

Fascinated by the story of hardy trailblazers seeking gold at Klutina Lake and Glaciers, the author follows the old route to a new campsite and explores by boat and by foot a beautiful wilderness area and the site of an old town replete with history.

70061 Halprin, L. FREEWAYS. New York, Reinhold. 160p. 1966. Illus.

Functions of freeways, types and design are discussed. Effect on community values and evolution of contemporary design are described with numerous photographs and sketches. TE175 H3

70062 Hardie, J. Where the action is-ocean piers. FISH. WORLD, 14 (1):16-19, Jan.-Feb. 1967. Photos.

Tackles for and varieties of game fish to be caught off Florida piers are described. Fast mackerel sport is on winter schedule.

70063 Harrison, H. Freeze out - nature's catharsis. IOWA CONSERV. 26(2):1, 15, Feb. 1967. Photos.

Winter fish losses do not obliterate fish populations, but result in an environment into which surviving and stocked fish may grow rapidly. Fish released from the pressures of crowding become vigorous and find themselves in abundant food supplies. In addition to better conditions for survivors, winter fish losses set the stage for successful spawning and growth.

70064 Hawkes, A.L. Coastal wetlands - problems and opportunities. In North American Wildlife and Natural Resources Conference, 31st, Pittsburgh, Pa., 1966. TRANSACTIONS. Washington, Wildlife Management Institute. p. 59-78, 1966. Ref.

A valuable natural resource is the coastal salt marsh. Its use for recreation is high, economically important, and relatively non-destructive. Large numbers of people do not use the actual marsh, hence they are unaware that their fishing, shellfishing, and other waterside activities being carried on miles away may be dependent upon marshland. The recreational value of the marsh itself is high when considered as a hunting, fishing, shellfishing, and birdwatching complex. Biologists recognize that coastal salt marshes are among the most valuable and productive natural plant and animal communities on earth. But all is not well with these wetlands. Several problems - depletion of marshes, mosquito control, the use of certain insecticides, the dumping of refuse into marshes, pollution, hurricanes,

the filling or dredging of marshes to create marinas - are discussed in detail. The recommendations that are made to remedy these problems include programs for the purchase, protection, and preservation of marshlands. Support of these programs by all conservation groups and by public funds is urged.

SK351 N872 1966

70065 Haynes, J.E. HAYNES GUIDE. HANDBOOK OF YELLOWSTONE NATIONAL PARK. 192p. 1966. Maps, illus.

A guide to Yellowstone National Park provides general information on the roads, transportation, administration, and facilities of the Park. A tour of the Park locates geologic formations; flora and fauna of the area, scenic trails; and the activities of fishing, camping and nature observation. Road mileages and elevations also are listed.

F722 H4 1966.

70066 Heald, W.F. The Cascades' Green Mantle. AMER. FOR. 73(4): 12-15, 55-56, Apr. 1967. Photos.

The author describes the trees in the forests of Washington. The history of Douglas fir, lodgepole pine, western red cedar, western white pine, alpine fir, and other trees are discussed. The vegetation and forests of the North Cascades also are discussed.

70067 Higgs, J.W. Wilderness in the Nation's Capital. AMER. FOR. 73(1):34-37, Jan. 1967. Photos.

"Ten minutes from the U.S. Capitol, along the Anacostia River, in north-

east Washington near the Kenilworth Aquatic Gardens is an area of wilderness that remains virtually unspoiled by man. A sanctuary for wildlife, waterfowl of many varieties may be found, including the Great Blue Heron. Muskrat, fox, opossum, and raccoon are also common to this area."

70068 Howard, N.E. Obed River has beauty, muskies, near by hunting. TENN. CONSERV. 32(8):4-5, Aug. 1966. Photos.

The natural beauty of the Obed River in Tennessee has been preserved and not invaded by roads and highways. The area is rich in muskies and is excellent for fishing and hunting. The article recommends that the Obed be included in the National Scenic Rivers System.

70069 Hull, C. Don't bypass the lagoons. WEST. OUTD. 14(2):42-43, 57, Feb. 1967. Photos.

Sportsmen might profit from exploring the beautiful little lagoons along the California coast between Trinidad and Orick. There one could fish, hunt, camp, swim, water ski, sail, collect agates, go boat racing, or collect driftwood.

70070 Hull, C. Ramps by the thousands. WEST. OUTD. 13(12):38-39, 47, Dec. 1966. Map, photo.

This is a report on the major boat launching facilities in Southern California. A map is included indicating launching sites.

70071 Hultquist, K.B. Sounds of a river. NAT. PARKS MAG. 40(227):9-12, Aug. 1966. Maps, photos.

The shadow of the proposed Tellico Dam, silencer of the sounds of a river, falls across the valley of the Little Tennessee River. A canoe trip down this historic waterway recalls old Indian and British landmarks. Along the course of this river there are now four dams and reservoirs. Only a little more than 33 miles of free-flowing river remain. This part would be inundated along with relics of early American history if the proposed dam near the river's confluence with the Tennessee is constructed.

70072 Humbird, J. Where the graceful white swan... IDAHO WILDL. REV. 19(5):6-8, Mar.-Apr. 1967. Photos.

Wildlife conservationists are striving to keep for mankind's present and future environment the trumpeter and whistling swans. Factors in their preservation and distribution are presented.

70073 Hutt, A. Everglades country. FLA. WILDL. 20(9):12-15, Feb. 1967. Map, photos.

Because of the efficacy of the fish management program Florida's biggest fishing hole, the 872,000 acres of the vast south Florida marshland, is becoming famous for its abundance and variety of fish. Types of fish available and locations of camps and fishing areas are given.

70074 Huyck, D.B. Hoge Veluwe National Park. AMER. FOR. 73(2): 22-25, 57-58, Feb. 1967. Photos.

The culture-nature conservation combination to be found at the Hoge

Veluwe National Park in the Netherlands is described. Nature has provided a colorful multifaceted setting for man's artistic endeavors which are housed in the excellent Kroller-Muller Museum and its Sculpture Park.

70075 Into Utah's Treasure Mountains. SUNSET, 138(1):22, 25, Jan. 1967. Photos.

Information on ski lifts, costs and accommodations at a new ski area, Treasure Mountains in Utah's Wasatch Range, is provided.

70076 Jackson, J.P. Strange world of Reelfoot. AMER. FOR. 73(3):38-39, 55, Mar. 1967. Photos.

A description of the many natural wonders of Reelfoot Lake, brought into being by an earthquake.

70077 Jensen, F. New road to Zion. DESERT, 29(5):16, May 1966.

The Kolob section of the Zion National Park will be opened by the National Park Service during the summer of 1967. The new road, its route, views and surrounding area are described.

70078 Johnson, G.M. Wilderness in North Dakota. N. DAK. OUTD. 29(7): 22-25, Jan. 1967. Map, photos.

The National Park Service has selected a North Dakota area of about 20,000 acres for possible inclusion in the National Wilderness Preservation System. Located in the Theodore Roosevelt National Memorial Park, it includes all of the South Unit

west of the Little Missouri River and all of the North Unit south of the Little Missouri River. Besides a petrified forest in the South Unit, some other assets of the proposed wilderness region include the remains of several original Indian shelters, the wildflowers indigenous to the Badlands, as well as the birds, antelope, buffalo and other wildlife common to prairies and Badlands. This proposed wilderness area was explored by the North Dakota Wilderness Society Committee, which has drawn up recommendations to present at hearings and have mobilized local public support for the project. If approved as a wilderness area, this 20,000-acre region will still be administered by the National Park Service. No travel except by horseback or hiking will be allowed within the area. Wilderness area activities are hiking, backpacking, and horseback trips, with the opportunity to see at first hand simply fascinating ecological relationships of an unspoiled segment of the vanishing prairie and Badlands.

70079 Kanzler, J. Montana's Humbug spires. SUMMIT, 13(2):22-23, Mar. 1967.

Humbug spires are among the finest quality hard rock climbing in Montana. The geologic peculiarities of the region are described.

70080 Kingery, H.E. A wilderness in the Tarryalls. Lost Creek. TRAIL TIMBERL. (570):96-99, June 1966. Maps, photo., tables.

A new addition to the Forest Service wilderness area is the Lost Creek Scenic Area in the Tarryall Mountains

of Colorado. Maps and guides for the many trails are supplied. The country is rich in wildlife, and the creek provides good fishing and rock climbing.

70081 Koehler, C.R. Cape Cod Seashore's white cedar swamp. NAT. PARKS MAG. 40(231):11, Dec. 1966. Photo.

In addition to its natural beauty and historical features the Cape Cod Seashore has an unusual white cedar swamp. There is a trail system through these swamps that includes foot and bicycle paths. Guided tours are available.

70082 La Rocque, R. Cape Cod National Seashore. BET. CAMP. 7(7): 30-34, July-Aug. 1966. Map, photos.

Cape Cod National Seashore is faced with the problem of a shortage of campgrounds. The existent private campgrounds are adequate except during the months of July and August when there is an influx of campers. Increase in land values is making it more difficult for the government to open new campgrounds at the Seashore. A list and description of private camping areas in or near the Seashore is given.

70083 Leadabrand, R. A GUIDEBOOK TO THE MOJAVE DESERT OF CALIFORNIA. Los Angeles, Ward Ritchie. 180p. 1966. Ref., maps, photos.

The author has prepared a series of guidebooks to the mountains of Southern California, but this guide to the Mojave Desert (western portion), Death

Valley, and Joshua Tree National Monuments, and Antelope Valley proclaims the natural beauty of the region and contains stories of the trails, towns, ghost areas, mined scenic wonders, mountain formations, Government installation and historical background. F868 M65L4

70084 Leuenberger, M.A. Canada's National Parks. WEST. OUTD. NEWS, 13(31):6, Aug. 5, 1966. Photo.

Canada is well supplied with campsites, campgrounds, outdoor movies, museum trails and nature walks. The national provincial and municipal parks and their facilities are briefly discussed.

70085 Livingston, J.A., Lansdowne, J.F. BIRDS OF THE NORTHERN FOREST. Boston, Houghton Mifflin. 248p. 1966. Ref., illus.

Fifty-six birds found in the northern forests of Canada are described and illustrated by the artist. Interesting information such as names, origins, habits, movements and relative numbers about a bird or a group of birds is recorded to allow for some appreciation of the nature of birds in general. The species are presented in systematic order.

70086 McDonough, J. Buck fever. SKIN DIV. MAG. 15(9):50-51, 67, Sept. 1966. Photos.

Tiny Buck Island, part of the Virgin Islands, is a National Monument, and contains a barrier reef and crystal clear water, which provide

excellent diving areas.

70087 McLean, H.E. Alaska. '67-- Year of ice. AMER. FOR. 73(1):6-9, Jan. 1967. Photos.

It's centennial year in Alaska and centennial visitors can re-live Klondike Gold Rush days at Fairbanks, enter the Silver Salmon Derby at Seward, watch fish pirate melodramas in Ketchikan, and sample the king crabs in Kodiak. But the most remembered thing is the ice. The sun-glistening, blue-hued frozen landscape impresses the visitor with something unforgettably Alaskan. The Forest Service, the National Park Service, and the State of Alaska have been working to bring Alaska's ice into visitor-focus. Particularly outstanding "ice experiences" available to tourists this summer are listed and described in this article.

70088 Marshall, A. Railways to pathways. PARKS RECREAT. 1(12):978, 985, Dec. 1966. Map.

In Minnesota, retired railroad facilities such as railway track roadbeds are gaining popularity as hiking, cycling, and horseback riding trails. Other states are discovering abandoned roadbeds as potential recreation resources.

70089 Mason, H.F.R. HISTORIC HOUSES OF CONNECTICUT. 2nd Edition. Stonington, Conn., Pequot. 59p. 1966. Map, photos. (Connecticut booklet no. 5)

The book is a guide to the historic houses in Connecticut open to the public. A map is provided for

location; visiting days and hours for each house are given.
F95 M26 1966.

70090 Mathias, C. McC., Jr. A trip up the Potomac. ATLANT. NATUR. 22 (2):74-80, Apr.-June 1967. Illus.

The Congressman from Maryland describes the attributes of the Potomac Basin, recounts some of its history, and points out the dangers to the Basin's resources by population expansion. To produce a suitable model for the Basin he proposes: the task be approached in a spirit of cooperation in planning and investment at local, regional and national levels; the use of real imagination in shaping new methods to employ the Basin's human and material resources; and the use of care in building soundly. A new House bill sponsored by Rep. Mathias, called the "Chesapeake and Ohio Canal Development Act," would serve as a pilot project which will restore cooperation among the agencies, provide recreational opportunities and restore the confidence and support of the people of the Potomac Valley. Special features of this proposed legislation are explained.

70091 Mayfield, H. Shed few tears. AUDUBON, 69(3):60-65, May-June 1967. Photos.

Factors in population control of birdlife are discussed. Wild creatures have the ability to sustain heavy annual losses and produce a surplus every year against the attrition of natural agencies. But these remarkable survival powers operate only as long as the bird has suitable habitat. Conservation efforts should

should be so directed.

70092 Men and horses make history at famous old Belle Meade mansion. TENN. CONSERV. 33(3):4-5, Mar. 1967. Photos.

Belle Meade, the "Queen of Tennessee Plantations" flourished in the late eighteenth and early nineteenth centuries. This stately mansion has been restored and today presents an image of elegance and refinement reminiscent of a bygone era of gracious living. The Association for the Preservation of Tennessee Antiquities administers the mansion and grounds located within six miles of Nashville. The property belongs to the State of Tennessee.

70093 Menzies, E.G.C. BEFORE THE WATERS. THE UPPER DELAWARE VALLEY. New Brunswick, N.J., Rutgers Univ. Press. 109p. 1966. Maps, photos.

Once settled by the Dutch, the Huguenot French, and a few English, soon the entire historic Minisink countryside will be inundated by the reservoir created by Tocks Island Dam or enveloped by the Delaware Water Gap National Recreation Area. Built for water, power, and flood control, the 12,100-acre Tocks Island Reservoir will extend up river 37 miles. It will engulf farms, historic roads and sites, whole villages, and all of the Minisink Flats by 1975. Before this happens, there should be some record of what was here. The Minisink Flats were once the home of the Minisink Indians. The history of the region and its early settlers is recorded in this book, illustrated by photographs of old buildings and historic scenes.
F157 D4M4

70094 Mile high Prescott. SUNSET, 137(1):41-45, July 1966. Map, photos.

A description of Prescott, Arizona and environs is provided for the tourists. Some summer events, sports, outdoor recreation, and information on accommodations are listed.

70095 Mitchell, I. New rock park in New Mexico. DESERT, 30(5):9, May 1967. Photo.

Rockhound State Park near Deming in southern New Mexico encompasses 240 acres of rocky land on the western slope of the little Florida Mountains. It is designed for mineral collectors who are encouraged to take home samples of many kinds of rocks, that lie in profusion about the park's semi-arid landscape.

70096 Montagnes, J. Ski high in Canada. MOT. NEWS, 49(8):12, 24, Feb. 1967. Photos.

Skiing throughout Canada is excellent and ski slopes, ski lifts, hotels and motels are plentiful. The location of ski resorts, their accessibility and rates are mentioned.

70097 Moore, V.B. Virgin Islands National Park. NAT. PARKS MAG. 41(232):4-8, Jan. 1967. Map, photos.

This travelogue depicts the beauties and wonders of America's only really tropical preserve.

70098 Morris, P.A. A FIELD GUIDE TO SHELLS OF THE PACIFIC COAST AND HAWAII. 2nd Edition. Boston, Houghton Mifflin. 297p. 1966. Ref., illus., photos.

The book is a field guide to the collection, the classification, the distribution and the nomenclature of shells. Photographic specimens are presented for study. The plan of the book is in 3 parts, which cover in the first part shells found from Alaska to southern California, extending to Baja California and even Panama; the second includes those occurring in the Gulf of California, and the third the shells of Hawaii. The appendix contains a glossary of conchological terms and bibliography. QL417 M72 1966

70099 Morris, R. Custer State Park. S. DAK. CONSERV. DIG. 33(3):14-18, May-June 1966. Photos.

This park is situated in the Black Hills. It is South Dakota's largest tourist attraction and is accessible by good roads and parking areas. The park has facilities for recreation and is rich in history and natural beauty.

70100 NTRA outlines open trailbike areas in California's national forests. WEST. OUTD. NEWS, 13(33): 8-9, Aug. 19, 1966. Photo.

Information compiled by the National Trail Riders Association describes trails for trailbikes, tote goats and scooters available in most of the national forests in California. These trails provide access to areas excellent for fishing and hunting.

70101 National Geographic Society, Washington, D.C. Book Service. AMERICA'S WONDERLANDS. THE SCENIC NATIONAL PARKS AND MONUMENTS OF THE UNITED STATES. New enlarged edition. Washington. 552p. 1966. Map, photos.

Numerous staff members of the National Geographic Society and some present and former personnel of the National Park Service have prepared these articles on the National Parks System of the United States for the millions who visit the parks and monuments every year. The geologic or archeologic wonders of each location are described as well as the flora and fauna. For many of the parks a range of outdoor activities including boating, fishing, water and snow skiing, swimming and snorkeling are listed. Camping facilities and accommodations are mentioned.
E160 N25 1966

70102 New York (State) Conservation Dept. Division of Motor Boats. THE GRAND CANAL. Albany, N.Y. 2v. 1966. Maps, illus. photos, (N.Y. State cruise no.2).

Here is a complete cruising and facility guide of the waters from Tonawanda to Waterford covering the Erie, Cayuga-Seneca, and the Oswego canals. The "Cruise'n Charts" kit contains detailed charts with historical and background information and the folklore of the 350 mile journey across the State.
F127 E5N5

70103 Niering, W.A. THE LIFE OF THE MARSH. THE NORTH AMERICAN WETLANDS. New York, McGraw-Hill. 232p. 1966. Ref., maps, illus., photos.

Over 70 million acres of the United States, including Alaska and Hawaii, contain bogs, swamps or marshes. This book covers the whole marshland front and includes the quantity and variety of wildlife and plant-

life. It describes the ways of wetland life. A glossary of marsh and ecological terms, wetland areas in the National Park System, and national wildlife refuges are included in an appendix.

70104 North American Wildlife and Natural Resources Conference. TRANSACTIONS, 31st, 1966. Washington, Wildlife Management Institute. 48lp. 1966. Ref., maps, illus., tables.

"Renewing our Resources Environment" was the Conference theme. Selected individual papers are cited and abstracted under authors' names.
SK351 N872 1966.

70105 The obsolete zoo vs. future animal parks. LANDS. ARCHITECT. 57 (2):111-112, 119, Jan. 1967. Photos.

Ideas are expressed on the justification of the zoo in our modern world. Excerpts from "Conversation at Brandon," tape recorded in Vermont, are provided. The participants reject the concept of zoos as amusement parks and propose an animal-park design.

70106 110 beautiful pools capture awards for design excellence. SWIM. POOL AGE, 41(2):16-24, 29-30, 32-34, 36-38, 40-42, 44-45, 47-48, Feb. 1967. Photos.

The article contains many illustrations of the design and discusses prices and construction of residential, semi-public, and public swimming pools that won awards at the National Swimming Pool Institute convention, Jan. 24, 1967, Las Vegas, Nev.

70107 Paddle tennis courts redesigned. PARKS RECREAT. 2(5):26, 53, May 1967. Photos.

This discussion of the sport of paddle tennis includes a description of a new outdoor paddle tennis court. Designed by Putman Contractors, Inc., in collaboration with Industrial Design Consultants, both of Farmington, Connecticut, the new court is attractive, durable, and simple to erect.

70108 Patterson, A.E. Planned pathways bring leisure and safety. PARKS RECREAT. 2(6):22-23, June 1967. Map, photos.

Litchfield Park, Ariz. has its own bicycle roadways. These are enhanced by extensive landscape planting and limited to a 12-15 mph speed. The only other traffic allowed on these pathways are pedestrians and electric carts.

70109 Pearsall, J. The eleventh hour. Part 1. TEX. PARKS WILDL. 25(1):22-24, Jan. 1967. Illus.

The effects of man's increase and his activities upon wildlife and its habitat bring many species to early extinction. Rare and endangered species for Texas are listed.

70110 Pederson, Hueber, Hares and Glavin. ERIE CANAL PARK. Syracuse, Old Erie Canal Park Study Committee. 94p. 1966. Maps, illus., photos.

A report to the Governor assessing the outdoor recreational potential and historical value of the old Erie Canal in Onondaga, Madison,

and Oneida Counties between Dewitt and Rome to determine the feasibility of developing an historically oriented park. The Committee recommends extending State owned park land to the proposed City of Rome canal park project. Recreational uses to be developed include roads for pleasure driving, boating, canoeing, fishing, hiking, horseback riding, picnicking, camping and winter activities.

70111 Pepper, C. Lake Powell. DESERT. 30(4):25-27, 43, April 1967. Map, photos.

Rainbow Bridge, the most impressive attraction of new Lake Powell, may now be reached by boat or launch from Wahweap Marina near Page, Ariz. Access routes, accommodations, and scenic attractions are described.

70112 Pigeons, shows and people. AMER. RAC. PIGEON NEWS, 82(12):28-29, Dec. 1966.

The competition, the number of exhibitors, and the attendance was greater and more successful than previous annual shows at the 1966 27th National Show Racing Pigeon Association. The highlight events of the affair are discussed.

70113 Poole, D.A. Waterfowl vs. wetlands shrinkage. AMER. RIFLEM. 114(10):46-51, Oct. 1966. Photos, tables.

Preservation of hunting areas for waterfowl becomes increasingly more difficult with the loss of wetlands, drained for agricultural uses and the needs of a burgeoning population. Revenue received from sale of duck

stamps to hunters has not been spent entirely on acquiring wetlands. Improved legislation, broader land acquisition programs, policy changes, and improved waterfowl management, are necessary for preservation of waterfowl habitat.

70114 Pope, B. Padre Island: Texas playground. TRAIL. TRAV. 32(1):19-21, 46-47, Jan. 1967. Photos.

The accessibility of Padre Island is discussed as well as the recreational facilities and sports, such as, swimming, surfing, and fishing.

70115 Pound, C.E. Double duty jetty. PARKS RECREAT. 2(5):21, May 1967. Photo.

Reinforced by new rocks, surfacing, and other improvements, the rock jetty at Glen Island Park now not only prevents erosion of the shoreline but serves double duty as a fishing pier as well.

70116 Praeger, R.Q.F., Waterbury, J.W. Convertability...Provides the key to municipal stadium design. AMER. CITY, 81(8):100-101, Aug. 1966. Illus., photo.

Ideas on constructing stadiums adaptable for multipurpose sports are presented. A number of studies are discussed to illustrate the importance of parking space to attendance. The Milwaukee County Stadium and the Shea Stadium in New York are described.

70117 Price, R. Flaming Gorge. DESERT, 29(5):36-37, May 1966. Photo.

Describes Flaming Gorge National Recreation Area in Utah-Wyoming. This is administered jointly by the National Park Service, Forest Service and Bureau of Reclamation. The lake and the recreational facilities are discussed.

70118 RECREATIONAL VEHICLE PARK GUIDE. 1966-67 edition. Chicago, Mobile Home Manufacturers Association. 126p. 1966. Ref., maps, photos.

The Guide has more than 7,400 listings including 1,400 private and 1,700 government parking areas. Information is given on dealers who rent, service, and sell accessories for recreational vehicles. The listings also include: addresses, rates, facilities, a complete road atlas of the United States, Canada and Mexico, and a photo section of historical landmarks and monuments.

70119 Reed, H.H. Duckworth, S. CENTRAL PARK. A HISTORY AND A GUIDE. New York, Clarkson N. Potter. 165p. 1967. Ref., maps, photos.

Central Park, designed in 1858 by Frederick Law Olmstead and Calvert Vaux, is wholly man-made. The design represents the culmination of England's picturesque landscape tradition molded to American vision. The southern section represents the pastoral of this tradition; the northern presents the strictly picturesque, or natural. Walking tours of these areas are described. To this 840 acres set aside for public use come adults and children to indulge in spectator events, such as, sports, plays, music and art and participation activities, such as, bicycle riding, zoo visiting, nature enjoyment, and rowing.

Lists points of interest, recreation and events, vegetation, birds, historical markers, statistics on Central park, and acreage of major urban parks of the world.
F128.65 C3R4

70120 Rodimer, E. THE YEAR OUT-DOORS. New Brunswick, Rutgers Univ. Press. 294p. 1966.

This book describes the natural ecology of Sussex County, New Jersey, its moods, its seasons, and its wildlife. QH105 N5R6

70121 The romance of the Victorian era now lives in James Lee Memorial. TENN. CONSERV. 33(3):11, Mar. 1967. Photos.

In Memphis are three romantic and elegant representations of American Victorian architecture. Known as the James Lee Memorial trilogy, the restoration of the Noland Fontaine House, the Lee House, and the adjoining Carriage House was accomplished by the Memphis chapter of the Association for the Preservation of Tennessee Antiquities. The Lee trilogy and multifarious contents reveal much about 19th century arts and manners.

70122 Russell, A. GRIZZLY COUNTRY. New York, Knopf. 302p. 1967. Ref., photos.

This book describes characteristics and behavior of the grizzly bear, techniques of hunting with gun and camera and trailing the bear. The author pleads for a better understanding of the bear and the preservation of wildlife and wilder-

ness areas. QL795 B4R86

70123 Ruth, K. Platt National Park. OKLA. TODAY, 16(3):2-7, Summer 1966. Illus., photos.

The historical background of the town of Sulphur, Okla., nearest town to Platt National Park is given. Plans for the expansion of facilities at Platt could make Sulphur the vacation capital of Oklahoma.

70124 Scharff, R., ed. GLACIER NATIONAL PARK AND WATERTON LAKES NATIONAL PARK. New York, David McKay. 184p. 1967. Ref., maps, illus., photos.

Back-to-back, two great national parks, Glacier in Montana, and Waterton Lakes in Alberta, symbolize two nations, the United States and Canada, at peace across a common, unfortified border. This whole region has been called "the land of shining mountains." The book provides information about trees, birds, animals, reptiles, and amphibians of the region, as well as places of interest and activities. There is advice about backcountry etiquette and regulations. Mileage between points of interest is given, trail numbers, too, in some cases. Included is a list of Glacier Natural History Association publications. F737 G5S3

70125 Scharff, R., ed. GRAND CANYON NATIONAL PARK. New York, David-McKay. 198p. 1967. Ref., maps, photos.

The grandeur and overwhelming power of that geologic marvel, the Grand Canyon, are portrayed in this book. Points of interest and mileage inside the Grand Canyon National Park are

given. Included are descriptions of trails, mule trips, Colorado River float trips, trees and animals of the region, plus the activities and services available on both Rims of the Park. Checklists are provided of the birds, lizards, and snakes of the Grand Canyon. Place names, with their derivation, if known, are included. Additional publications and maps about Grand Canyon National Park are listed.

F788 S3

70126 Scharff, R. ed. YELLOWSTONE AND GRAND TETON NATIONAL PARKS. New York, David McKay. 209p. 1967. Ref., maps, illus., photos.

The National Parks known as Yellowstone and the Grand Teton contain geologic and topographic features of superb majesty and scenic beauty. Both parks have abundant wildlife, plantlife, and outdoor activities such as boating and fishing for the visitor. This book lists and describes all the major points of interest and mileage within the Yellowstone-Grand Teton region. Publications and maps which can be obtained from each park are listed.

F722 S3

70127 Shaub, E.L. War renews interest in Tennessee's battlefields. TENN. CONSERV. 33(1):10-11, 13, Jan. 1967. Photos.

Tennessee's Civil War battlefields and national military parks are described.

70128 Shaub, E.L. What to see and do in historic Cumberland Gap. TENN. CONSERV. 32(7):8-9, July 1966. Photos.

Describes the recreational, historic and scenic values of the nation's newest historical park in the adjoining mountains of Tennessee, Kentucky, and Virginia.

70129 Smith, D.G. Take a trip to Craters of the Moon. TRAIL. LIFE, 26(10):118-119, 134-135, Oct. 1966. Photos.

There are a numerous variety of volcanic activities in the Craters of the Moon National Monument that make this area excellent for scientific study. At the Visitor Center, a park ranger supplies brochures and advice on volcanic exploratory trips and camping.

70130 Starr, J.T. My Maine islands. AMER. FOR. 73(2):38-41, 60, Feb. 1967. Photos.

Especial favorites of the author are those islands which lie along the east side of Penobscot Bay and extend around toward Mount Desert. Deer Isle, Little Deer Isle, Isle au Haut, Mount Desert Island, and the Cranberries, with their early history and notable sightseeing delights, are described.

70131 Summer fishing at Medicine Lake. SUNSET, 137(1):31-32, July 1966. Map, photos.

Medicine Lake in north-eastern California supports a stocked population of rainbow and eastern brook trout. The best sources of boats, types of lures, access highways and facilities are discussed.

70132 Swann, R. Sam Rayburn Lake. SOUTHW. HOL. 21(2):7, 18, Feb. 1967. Photos.

Sam Rayburn Lake, located in Angelina National Forest, is an important lake in the total outdoor recreation picture for Texas, Louisiana, and, possibly, Oklahoma. Some 20 recreational sites are being developed and more than 50 are being planned around the lake. Camping, boating, and fishing are offered.

70133 Taylor, F. Prehistoric pop at Coyote Hole. DESERT, 30(3):31, Mar. 1967. Photo.

Within a short distance of Los Angeles or Palm Springs in Coyote Hole lie some of California's finest petroglyphs. The site borders Joshua Tree National Monument, and it is hoped that future legislation will protect this unique area by adding it to the National Monument. Damage has already occurred as a contractor blasted one of the best walls of engravings to construct a flood control dyke and wandering marksmen use the area for target practice.

70134 Taylor, T. Desert garden. The story of the Boyce Thompson Southwestern Arboretum at Superior. ARIZ. HIGHW. 48(1):4-9, Jan. 1967. Photos.

Operated as part of the University of Arizona Desert Biology Station, the arboretum at Superior, Arizona, is one of the most extraordinary desert gardens in the Southwest. It serves as a public education facility for the study of desert plants, as a research center for

desert biologists, and as a training center for advanced students in the biological sciences. The well-illustrated account gives early history and explains the present three-fold function of the arboretum.

70135 Tennessee is famous for its beautiful waterfalls. TENN. CONSERV. 33(2):10-11, Feb. 1967. Photos.

About 27 of the best known and appreciated Tennessee waterfalls are named, located, and described in this article.

70136 Thomas, S. Arizona. TRAIL. LIFE, 27(1):48-51, 105-107, Jan, 1967. Map, photos.

Besides the Grand Canyon of the Colorado River, Arizona has mountains with ski resorts, good highways, vast open country, Indians, frontier history, plentiful public campgrounds, and a marvelous climate. The State includes 21 national parks, 16 national monuments, 14 Indian tribes, 7 national forests, 13 wilderness areas, 2 national recreation areas, plentiful fish, 400 roadside rest areas, and ample facilities for trailering.

70137 Thomas, S. California. TRAIL. LIFE, 27(3):44-47, 132-135, Mar. 1967. Photos.

A description is given of California and its state parks, national forests, state historical monuments, seashores, etc. The disposal stations are listed and addresses are supplied on where to receive information on state and national parks and monuments, trailer regulations and campgrounds.

70138 Thomas, S. Colorado. TRAIL. LIFE, 26(8):36-39, 66-67, Aug. 1966. Photos.

The author describes Colorado, its development, and its wealth of national forests, national parks, monuments, and recreation areas. Information is given on recreational facilities and accommodations.

70139 Thomas, S. Florida. TRAIL. LIFE, 26(12):38-41, 77-78, Dec. 1966. Photos.

Florida has 19 state parks, 2 state forests, 3 national forests, the Everglades National Park, 250 way-side parks and boat ramps, the first underseas park in the continental United States, 8000 miles of coastline, 1200 varieties of salt water fish, and 154 fresh water species. Information on these numerous recreational resources is given.

70140 Thomas, S. Green mountains and maple sugar Vermont. TRAIL. LIFE, 26(10):40-43, 79, Oct. 1966. Photos.

A description is given of the 61 state parks and forests and their trailer sites, the many historic and scenic country roads, the covered bridges, as well as the fine fishing in lakes, brooks and mountain streams. The Green Mountain National Forest, Lake Champlain and the lakes and ponds of Vermont are also described.

70141 Thomas, S. Kansas. TRAIL. LIFE, 27(6):36-38, 78-79, July 1966. Photos.

Describes the many public recrea-

tional facilities of Kansas, site of the National Campers and Hikers Association's annual convention, July 11-15, 1966.

70142 Thomas, S. South Dakota. TRAIL. LIFE, 26(9):50-53, 99-100, Sept. 1966. Photos.

South Dakota has 64 state parks and recreation areas, 77 campgrounds, the largest chain of inland lakes in the United States, mountains, national forests, monuments and parks. Information is given on recreational activities and accommodations.

70143 Thomas, S. Tennessee. The Great Smokies and TVA. TRAIL. LIFE, 26(11):52-55, 93, Nov. 1966. Photos.

The Blue Ridge Parkway, the Great Smoky Mountains National Park and other Federal and privately owned parks, recreational facilities, and historical sites in Tennessee are discussed. "Land Between the Lakes" is a large outdoor recreational area between Kentucky and Tennessee under development by TVA.

70144 Udall, S.L., Editors of Country Beautiful. THE NATIONAL PARKS OF AMERICA. New York, Putnam. 225p. 1966. Maps, photos.

Our national park system today comprises 231 areas and encompasses 27 million acres of land. Thirty-one of these parks are described. Each park has its own unique story to tell, its own rewards to offer. Each contributes to a deeper understanding and appreciation of the history of the United States and of our way of life; of the natural processes of biotic communities which give form to our land and of the

environment in which we live and are a part. These attributes are interpreted by the Park Service for millions of visitors each year.

The Appendix contains information on accessibility and accommodations for each of the 31 national parks described. Information of the seven proposed new national parks also appears in this section.

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70145 A visit to the West's first national seashore. SUNSET, 138 (2):48, 50, 52, 54, Feb. 1967. Map, photos.

Only 17,000 acres of the 53,000 set aside in 1962 as Point Reyes National Seashore have been procured. The National Park Service has prepared some trails, but much of the land is still unchanged forest and meadow. Heavy rainfall produces rich vegetation on the peninsula. There are a few parking lots and picnic tables near the most popular beaches. Descriptions of specific points of interest are provided.

70146 Walker, B. The lost lake of the Smokies. TENN. CONSERV. 33(1):4-7, Jan. 1967. Photos.

Calderwood Lake, an isolated lake, is located along the southwestern edge of the Great Smoky Mountains National Park, about half in Tennessee and half in North Carolina. It resulted from damming up the Little Tennessee River in a region where the river was still cutting its way through the surrounding mountains. For a wealth of natural beauty, isolated ruggedness, limited number of visitors, and unique

fishing capabilities--try Calderwood Lake.

70147 Walker, L.W. Arizona-Sonora Desert Museum. ARIZ. HIGHW. 49(1):28-36, Jan. 1967. Photos.

This museum exhibits the flora and fauna of the region. Subterranean desert life can be observed in action behind glass windows in a tunnel which houses desert creatures in the diurnal phase of their lives.

70148 Wenkham, R. A Kauai National Park. NAT. PARKS MAG. 41(234):4-8, Mar. 1967. Map, photos.

The rare tropical beauty of the volcanic wilderness on the island of Kauai is described in this article. Located in the Hawaiian archipelago, Kauai has a 97,000 acre area which has been proposed for a national park. Known as the "Grand Canyon of the Pacific," the area covers extreme varieties of climate and geological terrain. The ancient volcanic mountains, brightened with rare plants and bird songs heard nowhere else, are a botanist's paradise. This article expresses and explains the two divergent viewpoints about the proposed Kauai National Park.

70149 Westinghouse Electric Corp. Well lighted skating facilities... PARK MAINTEN. 20(2):45, Feb. 1967. Illus.

The diagrams illustrate a type of installation for an adequately lighted outdoor skating area.

70150 Wisconsin's whistle-stop nature trail. AUDUBON, 69(3):78-79, May-June 1967. Photos.

An abandoned railroad right-of-way between Sparta and Elroy, Wisconsin has been purchased by the State and converted into the Elroy-Sparta Trail. It is now open to hikers and bicyclists. Establishment of camping, picnicking and parking facilities are predicted. Railroad stations will be converted to shelter hikers and preserve railroad lore. Wildlife and vegetation are expanding to the railroad embankment.

70151 Wolff, H., Jr. Try the Texas seashore. BET. CAMP. 7(7):24-27, July-Aug., 1966. Map, photos.

On Sept. 28, 1962 the Padre Island National Seashore, an 80.5 mile stretch of the 117 mile Padre Island, was created by law. This area was preserved as a prime example of a barrier island. The twin islands of the Padre and Mustang on the Texas Coast have fine beaches and are visited by beachcombers and fishermen. The islands offer camping, fishing, swimming, surfing, and treasure hunting. The Aransas National Wildlife Refuge nearby and other places of interest are described.

70152 Woodrum, D. Should I take my family through Haleakala? HONOLULU, 1(8):28-30, 50, 51, 52, Feb. 1967. Photos.

A trip across the Haleakala Crater, Haleakala National Park, Maui, Hawaii, is described. Details con-

cerning access routes, cabins, trails clothing, etc., are provided.

70153 Woollett, W. Los Angeles landmarks. HIST. PRESERV. 18(4):160-163, July-Aug. 1966. Photos.

No abstract.

ADMINISTRATION OF RESOURCES AND PROGRAMS

70154 An abundance of alternatives. NAT. PARKS MAG. 40(226):2,22, July 1966.

The editorial suggests that the Government lend \$150 million, interest free, to the Colorado River Basin Fund for investment in savings accounts at 4%, instead of investing in Bridge and Marble Canyon Dams. This and other considerations might hasten the production of power in the Colorado River Basin and the Pacific Northwest.

70155 Ade, G. Strip mining in Pennsylvania. NAT. PARKS MAG. 41(234):15-17, Mar. 1967. Photos.

This report shows that a start has been made toward the restoration of surface-mined lands to productivity.

70156 Advisory Commission on Intergovernmental Relations. REPORT, 1966. 8th. Washington, Govt. Print. Off. 38p. 1967.

The report contains some highlights in intergovernmental relations in 1966; congressional action on the Commission's record; and information on new reports, recommendations, programs and progress in implementing the recommendations of the Commission.

70157 Alcock, W.C. Community sponsors wildlife refuge. KY. HAP. HUNT. GROUND, 23(2):6-7,29, Mar. 1967. Photos.

Dedicated citizens of Danville may be bucking the impossible by

fighting the depletion of wildlife and the diminishing woodlands but they have made a start with 500 acres of knobs in Boyle County and an organization called The Central Kentucky Wildlife Refuge, Inc. The refuge will be an "outdoor classroom" to be used by educational institutions in such studies as botany, geology, ecology, mineralogy, natural history and biology.

70158 Allegheny conference honors Goddard. WAT. LAND LIFE, 8(4):16-17, Dec. 1966.

Dr. Maurice K. Goddard, State Secretary of Forests and Waters, reports on outdoor recreation projects in Pennsylvania and the State's effective working partnerships with Federal agencies and with such private enterprise groups as Western Pennsylvania Conservancy.

70159 Arnold, M.D. New federal \$ program can aid pool projects. In SWIMMING POOL DATA AND REFERENCE ANNUAL, 34:174-176, 1967.

The necessary procedures for county and municipal units to apply for assistance to develop recreational areas and facilities in their jurisdictions are outlined by an official of the Bureau of Outdoor Recreation.

70160 Arnold Center creates a sportsman's paradise. RECREAT. MANAGE. 9(8):8-11, Oct. 1966. Photos.

Fifteen years ago the Arnold Engineering Development Center started a far-seeing conservation program. As a result the Arnold

Center employees now enjoy excellent hunting and fishing on company land.

70161 Ashbrook, F. G. Wetlands: stepchild of land use. NAT. PARKS MAG. 40(227):17-19, Aug. 1966. Photos.

Biologists working on the national wetland inventory have compiled a list of fifty fur and game species of both small and big game which utilize wetlands. Refuges built thirty years ago have saved many waterfowl and bird species from extinction. The rapid depletion of wetlands in recent years prompted the National Wildlife Federation to conduct in 1955 a national wetlands inventory which pointed out the relative value of different types of wetlands to wild animals in general, and to waterfowl in particular. Cooperative planning between all agencies, Federal and local, supervising wetlands can improve conditions, but most wetlands remain on private lands where conservation for wildlife must be practiced by private individuals.

70162 Aspinall, W. N. How Congress views recreational needs. In National Conference on Policy Issues in Outdoor Recreation, 1966, Utah. PROCEEDINGS. Logan, Utah State University, p. 23-26, 1967.

The Chairman of the House Committee on Interior and Insular Affairs declares Congress recognizes the need for assistance for recreation. Congress is aware of conflicting interests over the various uses of land. To decide such controversies

Congress directs that a thorough professional study be made; all viewpoints are considered; and members decide according to their own judgment. Recently passed legislation is named, e.g., Land and Water Conservation Fund Act, Wilderness Act, Federal Water Project Recreation Act, and others - to show that Congress sees the value of outdoor recreation in the American way of life.

70163 Aspinall, W. N. The Public Land Law Review Commission: origins and goals. NATUR. RESOURC. J. 7(2):149-152, Apr. 1967.

Public Law 88-606 established the Public Land Law Review Commission in 1964. The Act charges the Commission with making a comprehensive review of the public land laws of the United States and of the rules, regulations, practices and procedures under which those laws are administered. Implementation and applicability of the Act are discussed.

70164 Atlantic States Marine Fisheries Commission. MINUTES, 25TH ANNUAL MEETING, 1966. Tallahassee, Fla. 158p. 1966. Illus., tables.

Recommendations and resolutions of the various regional offices, appointments of committees, and research papers on fish and shellfish, fisheries and sea inventories are given.

70165 The Audubon view. AUDUBON, 69(3):4-5, May-June 1967. Photos.

The endangered species program must not be allowed to distract attention from basic habitat preservation programs. The danger is real, not so much from within the wildlife services but from political and economic pressure groups who tend to consider all species as mere individuals rather than populations which are parts of a living and interacting ecosystem. It is the ecosystem which should be preserved.

70166 Babcock, R. F. Billboards, glass houses and the law. In Texas Conference on Our Environmental Crisis, University of Texas, 1965. PAPERS. Austin, University of Texas, School of Architecture. p.174-184, 1966.

A lawyer fears that once the "bad guys", represented by billboards and junkyards have been eliminated, the campaign for natural beauty may be transposed into one labeled aesthetics and directed against that which is different or "out" or according to general taste. He is afraid too much conformity would result. HN53 T47 1965

70167 Baker, R. F. Feasibility of incorporating natural beauty into highway design. In Symposium on the Price of Aesthetics and Natural Beauty, Columbus, Ohio, 1966. PROCEEDINGS. Columbus, Ohio State University, p.65-95, 1966. Ref., illus., photos.

The Director, Office of Research and Development, U.S. Bureau of

Public Roads, considers aesthetics in the concrete, as applied to highways. Briefly, history of transportation and the evolution of the "aesthetics idea" in highway design are reviewed. Six principles that apply to the use of aesthetics in highway design are explained. In consequence of the new public awareness of the importance of highway beautification--applied both to the highway and its surroundings--the possible scope of what lies ahead for roadside development is considered.

70168 Barnes, I. R. The economy of beauty. IDAHO WILDL. REV. 19(4):17, Jan.-Feb. 1967.

The economy of beauty is discussed. The total costs of ugliness, pollution and contamination of the environment, and the costs of creating a nuisance are considered.

70169 Bartholomew, W. M. Recreation education in selected junior or community colleges. PARKS RECREAT. 2(1):25-26, Jan. 1967. Tables.

The NRPA Study Committees on Junior College Recreation Education Curriculums examined and analyzed the recreation leadership curriculums of the institutions that submitted catalogs or other printed materials. The findings reported in this article pertain only to these 17 colleges and are not to be considered a representative sample of all the two-year institutions that are trying to provide recreation leadership training.

70170 Beazley, R. An approach to the problem of forest land development, administration, and management through education research. J. FOREST. 65(2):107-111, Feb. 1967.

The need for major changes in forest and associated land development are noted. The problem represents a searching for solution to the shortcomings of forest land development, administration, and management generally. The thesis of this paper is that much of the problem could be resolved through skillfully planned and integrated research and teaching in schools of forestry, especially in relation to multipurpose land development, administration and management.

70171 Bell, G. T. Adventure playgrounds. PARK ADMIN. 32(2):26-27,30, Feb. 1967. Photos.

The author discusses a need for a greater cooperation between local authorities and the private sector in establishing more adequate and suitable playgrounds for children. The adventure playground is superior to the standard playground because it is constructive, encourages self-expression and creativity, and can be economic in site and equipment.

70172 Bell, J. R. Ranch chores and nature study help entertain paying guests. SOIL CONSERV. 32(7):153, Feb. 1967. Photo.

A ranch near Cody, Wyo., plans unusual services for guests with the aid of the Soil and Water Conservation Service. User

participation in ranching chores, the outdoor experience, and a chance to study nature provide recreational outlets for visitors who gain a perspective on land management.

70173 Bemiss, F. The Virginia outdoors plan. PARKS RECREAT. 1(12):964-965,993, Dec. 1966. Photos.

The work of the Virginia Outdoor Recreation Study Commission and current status of outdoor recreation planning in Virginia are described.

70174 Bennett, W. H. Trends in recreation and outlook for recreation programs. In National Workshop on Cooperative Extension's Role in Outdoor Recreation, Athens, Ga., 1967. PROCEEDINGS. Athens, Ga., Univ. of Ga. Center for Continuing Education. p.41-46, 1967.

The Director of the Extension Services at the University of Utah discusses the need for outdoor recreation; the changes that are taking place in outdoor recreation activities today; and the probable changes in outdoor recreation in the future. These developments have resulted in the creation of new Federal and State agencies and local organizations and have introduced new problems in the use and management of natural resources and recreation areas.

70175 Benson, D. The management of wetlands wildlife. CONSERVATIONIST, 21(3):28-31, Dec.-Jan. 1966-67. Map, photos.

"Acre for acre wetlands are our most productive wildlife environment." Pollution and water levels are factors in their management. Proper site selection and clearing of areas are important factors. Particular emphasis is placed on the management for geese and ducks.

70176 Blank, U., Simonson, L. Resort management institutes. EXT. SERV. REV. 38(3):6-7, Mar. 1967. Photos.

Forty-one Resort Management Institutes have been conducted by the Minnesota Extension Service. This account narrates how resort owners learn to serve tourist needs better via effective development and management of recreation-related businesses.

70177 Bliss, G. L. The raft ride on the Green. OUR PUB. LANDS, 17(1):4-5, Spring 1967. Photos.

Describes a raft ride of 13 miles down the Green River below Flaming Gorge Dam. The Bureau of Land Management is making plans for several float stop developments with facilities to take care of the increase in visitor use.

70178 Boardman, W. S. Regional planning as a means of serving the public and saving the wilderness. APPALACH. TRAILW. NEWS, 28(1):8, Jan. 1967.

In a paper presented at a special meeting of the President's Council on Recreation and Natural Beauty on Nov. 16, 1966, the President and General Counsel of the National Parks Association, Anthony Wayne Smith, recommended development of well-planned, well-financed vacation resorts operated by the private sector. Thus, crowds of tourists would be contained at the resorts while the wilderness areas of nearby national forests and parks would be preserved in their pristine state. Tourists could make short visits to these natural areas.

70179 Bolt, J. New thinking on tourism. TOWN COUNT. PLAN. 34(11):495-498, Nov. 1966

The article describes current activity in planning for tourism, recreation, and landscape, and comments on three new publications from beautiful and popular holiday areas--the Lake District, Cornwall, and Donegal.

70180 Bostick, N. H. The caves of Marble Gorge, Grand Canyon. CAVES KARST, 9(1):2-4, Jan.-Feb. 1967. Ref., photo.

The proposal to build a dam in Marble Gorge to bring more water to the expanding agricultural industry in Arizona and New Mexico and provide hydroelectric power, alarms conservationists. The damage to Grand Canyon and the tributary Paria River canyon by dam construction have been pointed out by geologists. In addition to the technical objections are the threat to the country's wilderness resources by inundation. Scientific observations on the canyon's geology, hydrology,

and natural history should be published for objective decision-making.

70181 Boyle, R. H. Keeping Islandia isolated. SPORTS ILLUS. 25(16):80,82,84,89, Oct. 17, 1966. Photos.

Capitalist Herbert Hoover Jr. (not the son of the former U.S. President) has spearheaded a movement to preserve Islandia, a chain of 33 islands in Florida's upper keys, as a national monument. Some developers and property owners want to turn the islands into another Miami.

70182 Brewer, C. Smokies - hike to discovery. LIV. WILDERN. 30(94):3-8, Autumn 1966. Photos.

Philosophical foundations of wilderness are voiced by participants in Save Our Smokies Wilderness Hike which took place on Oct. 23, 1966. Another trans-mountain highway in the Park is the threat from which the hikers most want the wilderness saved. The hike leads to important re-discovery of a long-forgotten enclave of red spruce.

70183 Bristow, A. B. The Great Dismal Swamp. GARD. CLUB. AMER. BULL. 54(4):7-9, Sept. 1966. Photo.

With the threat of land reclamation projects to convert wetlands into fertile farmland and residential sites, some conservation groups have been successful in saving part of the Great Dismal Swamp for posterity.

Proposals from a State Feasibility Study recommend that the State acquire land and set aside part of the swamp for a State park with a wildlife area, natural area, and interpretive center included. With the prospect of qualifying for Federal matching funds the plan proposed by the State may become a reality.

70184 Brower, D., and other others. The Diablo Canyon area: California's last unspoiled pastoral coastland. SIERRA CLUB BULL. 52(2):7, Feb. 1967.

Reasons are presented why this segment of membership of the Sierra Club advocate a vote against the action of the Board of Directors which endorsed the construction of a PG&E power plant at Diablo Canyon.

70185 Brower, D. R. The good fight. EXPLORER, 9(1):14-18, Spring, 1967. Photos.

Man and his economy has developed 90% of the land. It is a challenge for our technology and civilization to handle this land in a better fashion. The other 10% of the land should be left essentially alone hoping for wiser generations. The historical and philosophical foundations of the conservation movement show there will always be two sides of the conservation coin, namely, the intelligent management and wise use of renewable or substitutable resources and the intelligent preservation of irreplaceable resources. The author, Executive Director of The Sierra Club, discussed the preservation philosophy of that organization and the areas of immediate concern.

70186 Brush, F. R. Beauty and conservation are their common aim. Nurserymen work to "plant America." SOIL CONSERV. 32(11):260, June 1967.

The role of the nurserymen of America in the beautification of our urban, suburban, and rural environment is explained. As long ago as 1950, the American Association of Nurserymen launched a "Plant America" program which they have recently intensified.

70187 Burgin, B. E. Hunting safety-1965. CONSERVATIONIST, 20(6):17, June-July 1966. Photos, tables.

More hunting accidents happened in New York in 1965 in spite of good hunter training courses. Reciprocal agreements between all States and Canadian Provinces might bring an end to diversity of laws and training.

70188 Burton, B. Shadow on the Bay. SALT WAT. SPORTS. 27(7):30-31, 57, 59-60, 62-64, July 1966. Map, photos.

The dredging operations of the Corps of Engineers in the Chesapeake Bay are a threat to the preservation of aquatic life in the Bay waters. Arguments pro and con are presented, biological aspects of the studies to be made are discussed, and solutions to the problem are proposed.

70189 Butler, G. D. INTRODUCTION TO COMMUNITY RECREATION. Fourth Edition. New York, McGraw-Hill. 612p. 1967. Ref., illus., photos, tables.

The purpose of this comprehensive textbook is to contribute to a better understanding of the recreation movement, to a higher quality of recreation leadership, and to more effective recreation service in communities throughout America. To achieve these aims, specific information is presented about the nature, extent, and significance of recreation; about leadership; about areas and facilities; about activities and program planning; about the operation of areas and facilities; about program features and services; and about organization and administration problems. The book was designed to serve the particular needs of four groups--teachers and students in the expanding number of colleges and universities offering courses in recreation; professional recreation leaders; members of recreation and park boards; and community leaders and city and school officials.

70190 C&O Canal Association favors National Park. NAT. PARKS MAG. 40(226):19-20, July 1966.

The C & O Canal Association at its 1966 reunion supported immediate establishment of a C & O National Historical Park and a program for managing the water resources of the Basin so that the need for army-type reservoirs on the Potomac would be eliminated.

70191 Cain, S. A. The ecological approach to management of the range resource as needed by a management agency. Remarks at the Seattle, Washington, meeting of the American Society of Range Management, Feb. 15, 1967. U.S. DEPT. OF THE INTERIOR NEWS RELEASE. 9p. Feb. 15, 1967

In this speech Dr. Cain discussed ecological research as a basis for understanding the range resource, and, especially, as an approach to management by a public agency. In the presence or absence of management lies the difference between use and abuse, not only of livestock, wildlife and other living organisms, but also of man himself. It is clear that society can no longer afford the uncoordinated development and use of natural resources which has resulted in a quick reduction of the quality of our environment. From this growing ecological awareness, public concern is increasing about all forms of pollution, deterioration of the resource base, and destruction of natural values.

70192 Cain, S. A. Fiftieth Anniversary of the National Park Service 1916-1966. LIV. WILDERN. 30(94):16-18, Autumn 1966. Photo.

Original National Park Service concepts and the growth of the Park Service System to include new recreation areas are discussed. Multiple use vs. preservation are areas for consideration by the National Park Service planners who must be the militant protectors of the original concepts in the development of programs. Public

support through the Golden Eagle program provides a stake for citizens in America's future recreation areas.

70193 Cain, S. A. Preservation of nature. Remarks. 1st annual meeting Caribbean Conservation Association, Grenada, W.I., May 5, 1967. U.S. DEPT. OF THE INTERIOR NEWS RELEASE. 10p. May 6, 1967.

Natural areas for preservation and recreation use are described. The kinds of areas in need of preservation, the purposes of preservation, and the parties responsible for preservation are listed. Recommendations are made. Historical examples around the world provide samples of the types and treatments of natural areas. Problems in planning which may involve interagency competition are discussed.

70194 Cain, S. A. Some consequences of the recreation explosion. VA. WILDL. 27(12):20-21, Dec. 1966.

Some generalizations are made on the outdoor recreation explosion. The large number of recreationists who crowd the limited public spaces may cause a reduction in the quality of the recreation experience. There is a widespread feeling that any kind of recreation should be allowed almost anywhere. The pressure for private land and water for outdoor recreation and the widespread ability to buy it is rapidly diminishing the opportunities to acquire open space for public use. The issues may be broken down according to structure of government. These are local, State, and national issues. Group action should be on a non-partisan basis

70195 Calhoun, A. Bulldozer delinquents. SIERRA CLUB BULL. 51(7):15-17, July-Aug. 1966. Photos.

Damage to streams and watersheds resulting from improper logging practices and inadequate control in California is discussed.

70196 California Dept. of Fish and Game. CALIFORNIA FISH AND WILDLIFE PLAN. Sacramento. 3 v. in 5. 1966. Ref., maps, illus., tables.

Volume I, Summary, brings together all of the key ideas, objectives, and recommendations of the California Fish and Wildlife Plan.

Volume II, Fish and Wildlife Plans, outlines the specific ways by which the purpose and objectives can and should be achieved. Problems related to, or involving, fish and wildlife are identified and solutions proposed.

Volume III gives supporting data in three sections. Part A contains inventories of wildlife and inland fish resources. Part B contains inventories of salmon, steelhead, and marines resources. Part C concludes with data about land and water use and changes related to fish and wildlife; about predicted resources and habitats of 1980; and about the human use of fish and wildlife, both at present and projected to 1980.

70197 California Dept. of Water Resources. ABBEY BRIDGE RESERVOIR. Sacramento. 3lp. 1966. Map, illus., tables. (Bulletin No. 117-4).

This bulletin presents land use, land acquisition, and recreation development plans together with other information to support budget requests to design and construct recreation facilities at Abbey Bridge Reservoir, one of the five Upper Feather River reservoirs of the State Water Project. GB705 C2A3 No.117-4

70198 California Division of Recreation. RECREATION STUDY FOR THE SURPRISE VALLEY SOIL CONSERVATION DISTRICT. Sacramento. 33p. 1966. Map, tables.

Outdoor Recreation has tremendous economic significance in the Surprise Valley area of Modoc County, California. This study reviews existing recreation areas and facilities and considers outdoor recreation opportunities particularly in the development of hunting, fishing, boating, motoring, and private recreation opportunities. Tables indicate present and potential recreation statistics, wildlife statistics, potential recreation and wildlife improvement. Appendices list Federal and State loan and grant programs and county recreation policy. GV54 C2A45 1966

70199 Can we save our open space? PARKS RECREAT. 2(3):23, Mar. 1967.

The Dept. of Housing and Urban Development has requested a 1968 fiscal year appropriation of \$125 million from Congress for the open space program. Unless this budget is approved, the prospects of many communities acquiring much needed park and recreation sites are dim or non-existent.

70200 Canal park chain in New York State barge canal. PARKS RECREAT. 2(1):17, Jan. 1967.

A study now underway in Albany envisions a 526-mile chain of outdoor water-based recreation facilities stretching across New York State and linked together by the Barge Canal System. The State legislature has appropriated a preliminary \$50,000 for the study. Harold A. Jerry, Jr., study coordinator, estimates that the study will require at least three years. The recreation facilities planned will include large canal-side parks, marinas, bathing areas, picnic and camping grounds.

70201 Caplan, I., Focht, J. Conservation in the suburbs. CONSERVATIONIST, 20(6):4-5, June-July 1966.

Rockland County, New York, comes face to face with suburban sprawl and sponsors a conference on natural beauty to help educate people to local conservation.

70202 Carter, L. J. Grand Canyon dams: Interior to ask, "Are they necessary?" SCIENCE, 154(3745):134, Oct. 7, 1966.

The U.S. Dept. of the Interior is undertaking a review of proposals to build hydropower dams in the Grand Canyon as a means of financing water supply projects in the Colorado River Basin. Nuclear and coal-fired steam generating plants are proposed. Consideration of alternatives to the traditional approach of dam building to increase

the water supply for a given area marks the beginning of a new method in water resource development planning.

70203 Carter, N. Deep Creek Lake's fishing future. MD. CONSERV. 44(1):18-19, Feb. 1967. Photos.

The State Dept. of Game and Inland Fish conducted a study on Deep Creek Lake, Garrett County, Md., in the summer of 1966. With proper management and planning the Lake promises a great fishing potential. In addition to its natural beauty, the Lake is very good for swimming and water skiing.

70204 Cary, R. E. AN INVESTIGATION OF LIABILITY INSURANCE PROGRAMS OF RURAL RECREATION ENTERPRISES IN SOUTHERN MICHIGAN. East Lansing, Michigan State University. 141p. 1967. Tables.

From an analysis of liability protection programs of selected rural recreation enterprises in southern Michigan, the author has determined the significance of the liability insurance problem, and the major factors contributing to the problem. Methods are suggested for reducing liability risk and liability insurance problems.

70205 Case, S. G. Private associations, agencies, and societies. In National Workshop on Cooperative Extension's Role in Outdoor Recreation, Athens, Ga., 1967. PROCEEDINGS. Athens, Ga., Univ. of Ga. Center for Continuing Education. p.115-118, 1967.

The relationships with private organizations, and with other professional societies and associations are discussed. An organizational chart and a brief history of the National Recreation and Park Association are presented.

70206 Cherrey, M. J. Social and economic repercussions of recreation on national forest policy. Madrid, Spain. 15p. 1966.

This paper was presented at the Sixth World Forestry Congress in Madrid. Because of increased population, additional pressures of urban living, higher incomes, and shorter working hours, immense demand on the various recreational activities offered by forests is foreseen. In many instances, management of forests for timber will be curtailed because of more widespread use of recreational resources.

70207 Ciriacy-Wantrup, S. V. Water policy and economic optimizing: Some conceptual problems in water research. AMER. ECON. REV. 57(2):179-189, May 1967. Ref. (American Economic Association. Papers and Proceedings, 79th Annual Meeting, 1966).

A mixed groundwater-surface water system is explained in this beginning discussion about water policy and water resources systems. The decision-making process is next studied on each level in its structure, its functioning, and its performance. At successive stages of decision making, a basis for water policy is offered. Finally, criteria for the performance of water institutions are presented, with illustrations and conclusions.

70208 Citizen's Advisory Committee on Recreation and Natural Beauty. REPORT TO THE PRESIDENT AND TO THE PRESIDENT'S COUNCIL ON RECREATION AND NATURAL BEAUTY. Wash., D. C. 28p. 1967. (1st Annual Report)

The Annual Report is divided into two parts. The first part contains the recommendations of the Committee. These are made about the selection of highway routes, the design of highway signs, and about scenic roads; on interagency planning, recreation fees, public hearings, and reviews that should be made at various levels of government. The second part describes the Committee's work in progress which should lead to further recommendations at a later date. Such projects concern the electric utility industry task force on environment, environmental education, recreation land acquisition, the recreational use of private land, and a "Citizen Action" publication.

70209 Clapper, L. S. More parks for tomorrow. NAT. WILDL. 5(3): 4-9, Apr.-May 1967. Map, illus.

This article describes the organization of the National Park System and the problems faced in preservation of the national parks because of the increasing number of visitors. The proposed new parks, national recreation areas, scenic riverways, and lakeshores are identified as well as solutions to the overcrowding of existing parks, recreational and historical areas.

70210 Clark, G. W. Public hunting at Norton Reservoir. KANS. FISH GAME, 23(2):21-22, 1966. Photos.

Norton Dam and Reservoir under construction since 1964 will provide the economic and recreational benefits as an irrigation, municipal water supply and flood control project. The Kansas Forestry, Fish and Game Commission in cooperation with the Bureau of Reclamation and the Bureau of Sport Fisheries and Wildlife, will assume responsibilities for land and water for fish and wildlife management upon completion of construction and land acquisition at the reservoir site.

70211 Clawson, M. The Federal lands as big business. NATUR. RESOURC. J. 7(2):183-193, Apr. 1967. Tables.

The thesis of this article is that the business aspects of Federal land management deserve more attention than they have had; that attention to business aspects would strengthen, not weaken, conservation management. The history of

royalties from Federal lands is traced. Five deficiencies in the business aspects of Federal land management are discussed and five business operations which could give a more businesslike approach to management are proposed. Income, cost and financial returns from Federal lands will become more important in the future than they have in the past. A shift in this direction need not be at the expense of conservation but rather could support it.

70212 Cliff, E. P. Handling outdoor recreation policy issues. In National Conference on Policy Issues in Outdoor Recreation, 1966, Logan, Utah. PROCEEDINGS. Logan, Utah State University. p.57-63, 1966.

The Chief of the Forest Service presents some policy issues and problems. One dilemma involves the use of motorized equipment in national forests. Treated in detail is the multiple use policy of the Forest Service, and specific illustrations of multiple use in action are related. Since natural resource policy decisions are often irreversible, they merit close attention, high standards, and sharp management tools.

70213 Clift, J. Fighting Texas Congressman. SOUTHW. HOL. 20(6): 16-17, June 1966. Photos.

Congressman Ray Roberts of Texas wages a successful fight against user fees at Corps of Engineers impoundments.

70214 Coggeshall, A. D. For clean trailsides. ADIRONDAC, 31(2):33, Mar.-Apr. 1967.

A new approach to the problem of litter is being propounded by Amy Coggeshall and the Clean Trailsides Committee of the Adirondack Mountain Club. The Board of Governors of New York has adopted his resolution which is outlined.

70215 College of nautical knowledge. Northern New Jersey Power Squadron. SUBURB. LIFE, 37(1):33,60, Feb. 1967. Photos.

Boating is the country's fastest growing sport, and the United States Power Squadron is the nation's largest fraternity of boatmen, grouped into many squadrons all over the United States, including Alaska, Hawaii, and the Canal Zone. The group dedicates itself to the cause of greater safety afloat through a program of nautical education. Squadron membership, courses offered for promotion and activities in nautical education are described.

70216 Collins, R. F. It's Daniel Boone National Forest! KY. HAP. HUNT. GROUND, 22(6):20-21, Nov. 1966. Photos.

Kentucky's only National Forest, Cumberland, has been redesignated as Daniel Boone National Forest. Dedication ceremonies on July 23, 1966 are described. The history, economic impact, and management of the Forest are discussed.

70217 Compton, C. Lake Barkley Park to be ready in 1968. KY. HAP. HUNT. GROUND, 22(6):30-31, Nov. 1966. Photos.

Plans for the development of a major Kentucky outdoor recreation complex to be built adjacent to the large Land-Between-the-Lakes National Recreation Area were announced recently by State officials. The new Lake Barkley Park is to be financed by a Department of Commerce EDA grant and matching State funds.

70218 Confrontation in Gila wilderness. LIV. WILDERN. 30(94):44-45, Autumn 1966.

In the Gila National Forest, New Mexico, the U.S. Forest Service stood firm against a group of Las Cruces jeep club members and others who planned to "invade" the borders of the Primitive Area and drive over an abandoned wagon-way to a privately-owned campsite.

70219 Connaughton, C. A. Forester's toughest problems. J. FOREST. 64(7):446-448, July 1966.

Most people do not realize that commercial forest land can retain its utility and appearance. In management there is a need for better techniques and objectives to improve results that satisfy the public.

70220 Conservationists take a hand in sanitary waste disposal. SOIL CONSERV. 32(11):252-254, June 1967. Photos.

Town dumping grounds may be changed into centers of conservation interest. More than 30 towns with waste disposal areas in Northern Maine plan to use modern land and water science in relocating old dumps and locating new sanitary ones under the St. John-Aroostook Resource Conservation and Development Project with the assistance of aid offered by the Soil Conservation Service. Types of disposal are described.

70221 Cooper, P. Why a duck stamp. MO. CONSERV. 27(10): 14-15, Oct. 1966. Illus.

The change in game populations induced sportsmen, naturalists, and ardent conservationists to support the Migratory Bird Hunting Stamp Act passed in 1934. Revenue has provided considerable help for endangered species. Consequently, in July 1, 1960, there was an amendment to the duck stamp act that all revenue except actual printing and sales costs must be used for land acquisition for migratory birds.

70222 Corning, R. V. Build a better fish pond. VA. WILDL. 27(12):17-19, Dec. 1966. Illus., photos.

Construction and management methods developed by the Commission of Game and Inland Fisheries for the public fishing lake program are utilized in developing private fishing club

ponds. Fertilizing, constructing, and managing ponds for fish production are discussed.

70223 Cornwell, G. W., Holcomb, C. J., ed. GUIDELINES TO THE PLANNING, DEVELOPING, AND MANAGING OF RURAL RECREATION ENTERPRISES. Blacksburg, Va., Va. Polytechnic Inst. 424p. 1966. Photos, tables. (Va. Polytechnic Institute Cooperative Extension Service. Bulletin 301)

Papers are presented of an interagency symposium with representatives from all resource agencies that relate to outdoor recreation. These presentations deal with the planning, developing, and managing of rural recreation enterprises. Developed concepts are grouped under sections on fundamentals, outdoor recreation economics, planning, design, management, experiences of operators, and government roles. The role of the Bureau of Outdoor Recreation is presented by Jerome F. Anderson. Other Federal agencies included are the Soil Conservation Service, Farmers Home Administration, Agricultural Stabilization and Conservation Service, Forest Service, Corps of Engineers, and National Park Service.

70224 Crafts, E. C. The evolution of outdoor recreation policy. In National Conference on Policy Issues in Outdoor Recreation, 1966, Logan, Utah. PROCEEDINGS. Logan, Utah State University. p.13-22, 1967.

The Director of the Bureau of Outdoor Recreation views the evolution of outdoor recreation as a desirable public policy in the United States and as a major concern and responsibility of business. Some of

the historical and philosophical beginnings of outdoor recreation are cited and such current achievements as new national recreation areas, historic sites, national monuments, recreation facilities, national seashores and lakeshores are mentioned. Seven major policy problems and trends are presented. Added policy inputs from the Public Land Law Review Commission, and from the Bureau's Nationwide Outdoor Recreation Plan may be expected. Nine policy matters now under consideration by the President's Council on Recreation and Natural Beauty, and the Citizens' Advisory Committee on Recreation and Natural Beauty are also enumerated.

70225 Crafts, E. C. Impact of the Land and Water Conservation Fund. In North American Wildlife and Natural Resources Conference, 31st, Pittsburgh, Pa., 1966. TRANSACTIONS. Washington, Wildlife Management Institute. p.366-372, 1966.

The Director of the Bureau of Outdoor Recreation reports on the first year's operation of the Land and Water Conservation Fund Act. Calling his report "a brief stockholder's report," Dr. Crafts provides information about the Land and Water Conservation Fund, both as to income and commitments in projects by States and other agencies. All anticipated sources of revenue into the Fund, except for the Federal Recreation Area Entrance Permit, the "Golden Eagle Passport," were up to or exceeding the estimates. After his review of what has happened so far, Director Crafts concludes by pointing

out the basic problems and opportunities that lie ahead. SK351 N872 1966

70226 Crafts, E. C. Remarks before the Natural Beauty and Recreation Congress, National Association of Counties, Honolulu, Hawaii, Jan. 28, 1967. U. S. DEPT. OF THE INTERIOR NEWS RELEASE. 6p. Jan. 28, 1967.

The functions, purposes and nature of the President's Council on Recreation and Natural Beauty are defined.

70227 Craig, J. B. Ransoming the redwoods. AMER. FOR. 73(5):11, May 1967.

This editorial discusses the proposals and counter-proposals for a Redwood National Park voiced at the Senate Interior and Insular Affairs Committee hearings in April 1967. Mr. Battaglia, Executive Secretary to Gov. Reagan of California proposed eight conditions governing establishment of the park. The position of the opponents, especially the lumber industry, is presented and the conservationists' proposals described. Laurance Rockefeller acted as unofficial mediator in the task of ironing out difficulties in the path of the park. The editorial supports the Administration's plan as developed in Senator Kuchel's bill (S. 1370).

70228 Craig, J. B. Redwoods and the American Forestry Association: "men to match our trees." AMER. FOR. 73(4):8-9, Apr. 1967.

Members of the American Forestry Association from Florida, California, New England, and the Middle Atlantic States are in favor of the establishment of a Redwood National Park. The various factors involved, such as additional redwoods, watershed management, economic effect on local communities, and state parks are discussed. Humboldt, Jedediah Smith, Del Norte, and Prairie Creek are the four State parks which possess the most outstanding redwoods.

70229 Crass, H. S. The recreation story of Muskingum. TRENDS PARKS RECREAT. 4(1):13-16, Jan. 1967. Photos.

The Muskingum Watershed Conservancy District in Michigan is an example of land use projects developed with the participation and cooperation of Federal and State agencies. Costs and funds for developing and maintaining the recreational facilities are discussed.

70230 Crauce, J. H. Fishing reefs developed by seafoods division provide more sport. ALA. CONSERV. 37(1):19-25, Dec.-Jan. 1967. Maps, photos.

Two basic necessities for fish survival are provided by natural reefs—food and protection from predators. The article describes materials used to build artificial reefs. The sport fish which these

reefs attract in Alabama waters are included.

70231 Crites, R. The role of the Farmers Home Administration in outdoor recreation development. In National Workshop on Cooperative Extension's Role in Outdoor Recreation, Athens, Ga., 1967. PROCEEDINGS. Athens, Ga., Univ. of Ga. Center for Continuing Education. p.16-18, 1967.

The Farmers Home Administration has extended credit to individual farmers for the development of recreation resources. The benefits derived are: increase of income, improvement of the economy of the rural area, and application of marginal cropland to conservation uses.

70232 Crook, W. H. Poverty and the obstinate urge to beauty. In Texas Conference on Our Environmental Crisis, University of Texas, 1965. PAPERS. Austin, University of Texas, School of Architecture. P.34-39, 1966.

The Director, Southwest Regional Office of Economic Opportunity, discusses two aspects of America's environmental crisis—that our Nation is running out of nature and that the forces of urbanized society are in conspiracy against the sensitivities of us all—and he advocates positive action to preserve natural beauty in nature and elsewhere. Beauty helps to shape our values, to feed our spirits. An environmental crisis occurs at the decisive moment when all the forces of a total environment work negatively upon the spirit of man. Urban poverty is such an environment. Not only an

economic problem, poverty is a cultural problem, too--the lack of opportunity and the experience of beauty. Too many Americans have little experience of the surf, the sunset, and the autumn leaves.

Dr. Crook suggests ways that citizens can cope with these problems and outlines specifically what architects can do to help solve this portion of America's environmental crisis. HN53 T47 1965

70233 Cueman, E. R. Conservation district zoning. J. SOIL WAT. CONSERV. 21(5):179-180, Sept.-Oct. 1966. Photos.

Worcester County, Maryland is an example of a county that has adopted an effective means of conservation of land and wise land use by conservation district zoning. A state can, or should be able to advance zoning coordination among its political subdivisions.

70234 Cunningham, J. R. The Adirondacks: forever wild? AUDUBON, 69(2):38-43, Mar.-Apr. 1967. Map, illus., photos.

The Adirondacks, declared "forever wild" by New York State constitutional action of 1894, is threatened by a statewide convention which gathers in April to consider sweeping revisions of the State Constitution. A new superhighway will enclose a third side of the Adirondacks; private lumber interests now under supervision wish less control; and intensive vacation use of the area creates demand for increased recreational facilities. Conservationists fear further loss of the resource.

70235 Darling, F., Milton, J. P., eds. FUTURE ENVIRONMENTS OF NORTH AMERICA. Garden City, Natural History Press. 767p. 1966. Ref., tables.

This book is a compilation of papers, discussions, and debates of the 1965 Airlie House Conference of the Conservation Foundation at Warrenton, Virginia. Thirty-four ecologists, regional planners, economists, sociologists, and conservationists explore the limits of need and the aims of our society in that delicate balance between man and nature. These experts evaluate the potential productivity of various regions, evaluate ecological criteria in regional planning, and trace the decision-making process where it affects our relation to the environment. HC95 D33

70236 Dasmann, R. F. Aesthetics of the natural environment. In Symposium on the Price of Aesthetics and Natural Beauty, Columbus, Ohio, 1966. PROCEEDINGS. Columbus, Ohio State University. p.10-12, 1966.

In an effort to define beauty or to distinguish it in the environment, the speaker suggests certain components. Beauty is order; it is health; it is diversity; it is function. These components are explained. The opposite of beauty is disorder, disease, monotony, and malfunction. To the extent that Americans create or maintain beauty through an ordered diversity, they will also enhance the stability, health, and productivity of the Nation.

70237 Davis, J. This is your land. FLA. WILDL. 20(10):14-19, Mar. 1967. Photos.

The American citizen is part owner of many public lands--more than 870 million acres belong to the people under the jurisdiction of local, State, or Federal governments. With these lands are water resources. Ownership of these lands and waters carries a citizen responsibility for the wise use of these resources. Planning and preservation programs of concern to each citizen are implemented by the Land and Water Conservation Fund or the Public Land Law Review Commission. A National Estuarine System is also needed to protect the vanishing bird, animal and fish habitats along our coasts. A National System of Trails is proposed. Planning can determine how the lands can be used; who will use them--how often, how much; what products they will provide; and how they will be protected.

70238 Davis, R. K. Planning a water quality management system: the case of the Potomac estuary. In Kneese, A. V., Smith S. C. eds. WATER RESEARCH. Baltimore, John Hopkins Press. p.99-121, 1966. Ref., illus., tables.

The report is a study of the cost of alternative systems for dissolved oxygen management in the Potomac River estuary. This paper shows the nature of the gains to be realized from expanding the analysis of alternatives in the water resources planning process. The multipurpose Federally sponsored system shows a benefit over

the single-purpose locally financed system for any storage purpose because recreation assumes a share of the storage costs under the separable costs-remaining benefits allocation method used, even though no incremental storage is added for the recreation purpose. The problem is more serious where such difficult-to-measure values as scenic and recreational considerations are important in different ways to various groups. It appears that the nearest to optimization that can be achieved under present limitations is to show that a recommended plan is the minimum-cost solution for achieving a particular water quality standard and to provide information on the sensitivity of system costs to changes in standards. HD1694 A1K6

70239 Davis, T. G. Planned waterfowl habitat. SOIL CONSERV. 32(8):174-175, Mar. 1967. Photos.

Conservation practices make Sauvie Island, Oreg., an outstanding duck and goose hunting area. Thirty-three Sauvie Island Soil and Water Conservation District cooperators manage a total of 350 acres of planted and flooded wildlife lands on privately owned property.

70240 Dawson, B. Silver spade will bring to surface sparkling swim shrine. SWIM. POOL AGE. 40(12):19, Dec. 1966.

The construction of the Swimming Hall of Fame Shrine Building begins on Dec. 28, 1966. Information about its scope, its physical facilities, and its financing are provided by this article.

70241 Degraff, P. Let nature entertain your guests. RESORT MANAGE. 21(1):36-37, Jan. 1967.

The owner-operation of vacation resorts in both Florida and Michigan explains "American plan" resort operation, suggests activities for nature-loving guests, and gives operational advice by outlining his own 12-point credo of operation.

70242 Delaney, J. It couldn't happen to a nicer desert. DESERT, 30(3):14-16, Mar. 1967. Map, photos.

The Bureau of Land Management recently approved a lease of 50 additional acres adjacent to the Palm Springs Desert Museum near La Quinta, Calif. Programs and construction for the Living Desert Center are discussed.

70243 Delano, S. C. L. (Mrs.) National parks. GARD. CLUB AMER. BULL. 55(1):53-54, Jan. 1967.

The President on signing six conservation bills noted that the 89th Congress has provided measures to restore more land for parks and playgrounds than were lost to housing, highways, airports, and shopping centers. Features of the 4 new acts are described: one establishes a program for the preservation of additional historic sites; the second increases the acreage in the Point Reyes National Seashore in California; the Pictured Rocks area with some of the most varied scenery in the region, on the Lake Superior side of Michigan's Upper Peninsula has been made a

national lakeshore; and finally, Guadalupe Mountains National Park has been established in Texas. Features of this park are described.

70244 Delano, S. C. L. (Mrs.) National parks. GARD. CLUB AMER. BULL. 55(2):53-54, Mar. 1967.

A plea is made for national education in values and appreciation of unspoiled parks. In spite of extensive Congressional action recently in establishing new national parks and wilderness areas, violations of the Park System continue. The National Park Service wrestles with its problem of upholding the highest quality in the parks and at the same time listening to the voice of the American people, the local developer, the crowd-recreation groups, and the exploiter.

70245 Dennis, A. S. A new look at weather modification. J. SOIL WAT. CONSERV. 22(1):4-6, Jan.-Feb. 1967. Ref., photos.

Today weather modification is a sophisticated science, and the possibility of increasing precipitation by cloud seeding is very real. The methods proposed by the National Academy of Sciences for modification of clouds and storm systems are enumerated. Operational progress from 1957 to 1965 is noted. Efforts of the Federal government in developing control of this natural resource are described.

70246 Diamond, H. L. Beauty and the ballot. In Texas Conference on Our Environmental Crisis, University of Texas, 1965. PAPERS. Austin, University of Texas, School of Architecture. p.191-200, 1966.

The emerging new theme on the political scene is a bundle of related problems which have been around a long time--conservation, environmental health, urban planning, outdoor recreation, aesthetics, architecture, housing, preservation, good taste--tied together by the term "natural beauty." Here is a discussion of this inclusive kind of "natural beauty" as a political issue, including its political history and recent gains in both the Federal and State political arenas.

70247 Dickerman, E. M. A beneficial alternate proposal for a Great Smokies Road. LIV. WILDERN. 30(95):42-44, Winter 1966/67. Map.

Describes the alternate road proposed by the Carolina Mountain Club of Asheville, for the connection across the Great Smoky Mountains National Park from Bryson City to Fontana Dam. Under this proposal the Blue Ridge Parkway would be extended through a portion of the southern border of the Great Smokies Park to Bryson City, and a scenic drive would be built from Bryson City to Fontana Dam on the south side of Fontana Lake through the Nantahala National Forest. The advantages of this extension route of the Blue Ridge Parkway are discussed.

70248 Di Luzio, F. C. The contractor and the American future. Speech before the Associated General Contractors of America, 48th Annual Convention and Exhibit in San Diego, Calif., Mar. 7, 1967. U.S. DEPT. OF THE INTERIOR NEWS RELEASE. 12p. Mar. 8, 1967.

A new age of environmental control is emerging--the control of wastes. Water pollution control is now a national program. Water standards are being established by the States and the Federal government where needed. Federal policy is implemented by the Water Quality Act. The Clean Water Restoration Act of 1966 authorizes funds for Federal grants for the construction of waste treatment works. New construction grant provisions are summarized. The prospects and implications of the new national effort in waste control are discussed.

70249 Di Luzio, F. C. The escalating war on water pollution. Remarks before the U.S. Chamber of Commerce, Washington Hilton Hotel, Washington, D. C., January 26, 1967. U.S. DEPT. OF INTERIOR NEWS RELEASE. 13p. Jan. 27, 1967.

Some of the fundamental problems and conditions confronting the United States in the field of water resources are outlined. It is apparent that attitudes toward nature need changing as well as attitudes toward costs of cleaning up the environment. The range of technological and institutional options is outlined as well as legislative and administrative actions; water quality standards; responsibilities for pollution control; alternatives for industry;

and the provisions of the Clean Water Restoration Act of 1966.

70250 Di Luzio, F. C. Practical steps toward pollution control. Speech before the North American Wildlife and Natural Resources Conference, San Francisco, Calif., Mar. 13, 1967. U.S. DEPT. OF THE INTERIOR NEWS RELEASE. 13p. Mar. 13, 1967.

An acceleration of the anti-pollution effort in the years ahead is predicted. The people want effective and timely water and environmental pollution control and are willing to pay for it. New Federal legislation and predicted State and municipal legislation will be effective. There is increasing evidence of a new attitude on the part of business, industry, and agriculture. The past performance of the conservation community accelerated by new allies will promote quality in the environment.

70251 Dolgner, R. Perceptions and reflections on Yellowstone. LIV. WILDERN. 30(94):19-23, Autumn 1966. Photos.

The control of wilderness use was discussed before the trail ride at the Wilderness Society's Council meeting at Lake Hotel in consultation with Yellowstone Park officials and other Federal agency people. Park Service planners face a dilemma in dealing with population pressures and conflicting land use by governmental agencies. The problems of peoples enjoyment and the management of Yellowstone Park are considered.

70252 Dump in Nation's Capital is transformed into neighborhood park. NAT. PARKS MAG. 40(226):22, July 1966. Photo.

With the financial aid of Laurance Rockefeller, and cleanup by the Neighborhood Youth Corps workers, the neighborhood dump in the Deanwood section of Northeast Washington, D. C., was transformed on May 18, 1966, into the Watts Branch Park.

70253 Dunham, A. PRESERVATION OF OPEN SPACE AREAS. A STUDY OF THE NON-GOVERNMENTAL ROLE. Chicago, Welfare Council of Metropolitan Chicago. 101 p. 1966. (Welfare Council of Metropolitan Chicago. Publication no. 1014).

This monograph is oriented primarily toward the private law in Michigan, Illinois, Indiana, and Wisconsin which may be used to promote open space. First under consideration are the private rights which can be used to preserve open space and the effectiveness of such rights against a contrary government decision. Treated next are the forms of association of individuals devoted to open space purposes which can effectively use these private rights. Reviewed is the tax position of individuals who donate land to such organizations and of the organizations themselves. KB178 U8D9

70254 Durbon, W. B. Eyetests for hunters? IDAHO WILDL. REV. 19(1):3-6, July-Aug. 1966. Photos.

The National Rifle Association reports that although there is an increase in accidental fatalities from many causes, there is a reduction in annual accidental firearms deaths. Hunter safety training programs for an increasing population of hunters are a major contributing factor in this reduction. Vision rules for hunters are discussed and it is suggested that a study be conducted to determine the role visual deficiencies play in hunting accidents.

70255 Edwards, R. Y. The preservation of wildness. CAN. AUDUBON, 29(1):1-7, Jan.-Feb. 1967. Photos.

The problem of man and his relationship with nature; the values of vanishing wildness to him; and the efforts to preserve wildness are concepts being discussed throughout the world. Canada seems to have the doubtful honor of destroying more wild landscape faster with more waste with fewer people to do it than any other country. The article describes problem areas and suggests steps for improvement.

70256 Eldridge, H. Winter mountaineering school '66. ADIRONDAC, 31(1):6-8, Jan.-Feb. 1967. Photos.

Described are activities of the 13th annual Winter Mountaineering School of the Adirondack Mountain Club. A challenging program of climbs

was devised. There were "staged problems", such as, "broken ankles" and "tired" people.

70257 Ellis, J. B. OUTDOOR RECREATION PLANNING IN MICHIGAN BY A SYSTEMS ANALYSIS APPROACH. PART II: COMPUTER MAPPING FOR RECREATIONAL PLANNING. Lansing, Michigan Dept. of Conservation. 25 p. 1966. Ref., maps, illus. (Michigan Dept. of Conservation. Technical Report no. 7).

This report is the second in a three-part series concerning techniques and procedures to be used in developing Michigan's Comprehensive Outdoor Recreation Plan. The first part of the report explains the steps required for producing computer maps by the SYMAP process for any data concerning the counties of Michigan. The second part deals with the uses to which such maps can be put in developing recreation plans.

70258 Emmett, J. Dockside report on profit in marina-resort combination. RESORT MANAGE. 21(3):24-25, Mar. 1967.

Many large marinas are already in the resort business. Opportunities in combining the two operations and a marina plus shore facilities are enumerated and operational advice given. Bahia Mar at Fort Lauderdale, Florida, is rated as one of the outstanding operations in the big-marina field.

70259 Erickson, R. B., Laramy, R. E., Jr. Plans for more people. SOIL CONSERV. 32(6):126-127, Jan. 1967. Map, photos.

Resource planners in Connecticut are solving the problems of an increasing population by regional planning through the Connecticut Interregional Planning Program. A description is given of the planning structure that allows conservation districts and the Soil Conservation Service to share in improvement of the environment at regional and local levels.

70260 Eschmeyer, R. W. Industrial pollution and fishing. N. J. OUTD. 17(9):7-9, Mar. 1967. Illus.

Industrial pollution has ruined many a fishing stream. More than 10,000 separate plants in the United States are discharging industrial wastes into streams and rivers. The detrimental effect of this pollution upon fish is discussed in this article as well as the need for strong pollution laws, rigidly enforced, to prevent water pollution by industrial wastes.

Also included is last year's report of the Pollution Unit of the New Jersey Division of Fish and Game. In that one State 93 reports of pollution were received, 63 fish kills investigated, 66 special investigations were made, as well as 152 routine inspections, 10 special studies, 236 bioassays, and 3,126 chemical analyses.

70261 Esthetic water tanks. PARKS RECREAT. 2(5):21-22, May 1967. Photo.

An esthetic steel water tank with an observation roof and elevator is being built this spring in Peoria Heights, Ill. The 120-foot high structure for water storage will have a two-level observation deck on its roof which can be reached by elevator. It is an example of a new trend in community and industrial water storage reservoirs. Esthetic steel water structures have been built recently in residential sections of Spokane, Wash., Carbondale, Ill., and East Hampton, L. I., N. Y.

70262 Farina, A. M. Legal aspects of recreation. PARKS RECREAT. 2(3):42, 43, 55-56, Mar. 1967.

A study of the State constitutions and of the present recreation legislation in America brought to light the principles, criteria, and recommendations for developing future recreation legislation which are explained in this article.

70263 Farr, L. E. The increasing medical significance of environmental domestic noise. In Texas Conference on Our Environmental Crisis, University of Texas, 1965. PAPERS. Austin, University of Texas, School of Architecture. p. 210-219, 1966. Ref.

Noise as an aggravating environmental influence and debaser of health is discussed in this article. Exact numbers of decibels that various mechanical aids found in the home produce and effects of high-decibel

levels of sound are described. Although noise is frustrating and fatiguing during waking hours, its most deleterious effect occurs at night during the hours of sleep. Positive steps to reduce the sound level of the modern environment should be taken. HN53 T47 1965

70264 Federal aid for bike trails. Twelve urban areas receive grants. AMER. CYCL. 5(8):12-13, Oct. 1966. Photos.

A list of the twelve urban areas to receive grants from the Land and Water Conservation Fund to develop urban hiking and biking trails is announced, with amounts, by Secretary of the Interior Stewart L. Udall.

70265 Federal Aid Institute to be sponsored by NRPA. PARKS RECREAT. 2(2):26, Feb. 1967.

Sponsored by the National Recreation and Park Association, the Institute conducted by top policy officials of major Federal assistance programs is held to clear up some of the "fuzzy areas" now surrounding many Federal programs. Covered in detail will be the ways in which several Federal programs may be used to supplement each other and used in conjunction with State and local aid programs. The conference will include discussions on established programs, on recently enacted ones and on contemplated changes in existing administrative rules and regulations.

70266 Federal financial assistance for conservancy projects. NATURE CONSERV. NEWS, 16(2):13-16, Summer 1966.

Explains Federal assistance for Natural Area preservation through the Land and Water Conservation Fund and through Title VII of the Housing and Urban Development Act. A few of the conservancy projects such as Corcoran Tract in Maryland, Chiwaukee Prairie in Wisconsin, Swan Creek Canyon in Tacoma, Washington, St. Hilary's Wildflower Preserve in San Francisco, and other examples are described briefly.

70267 Finch, R. C. Nashville Grotto and Big Bone Cave. NSS NEWS, 24(8): 194-195, Aug. 1966.

Members of the Nashville Grotto Club have encouraged letter campaigns and personal letters to the Tennessee Department of Conservation for a proposal to establish the Big Bone Cave as a Tennessee State park. Excessive vandalism is destroying the Cave's historic and natural beauty.

70268 The fine wild forest of Nisene Marks. SUNSET, 137(2):20, 22, 25, Aug. 1966. Map, photos.

The forest of Nisene Marks near Aptos is a new California State park which at present is scenic wild land. There are no marked walkways, and a dirt road provides access for strolling visitors. It has been saved for a State park by the Nature Conservancy which procured the land reasonably from the Nisene Marks family who wished to conserve it.

70269 Finlay, E. Shooting preserve not simple operation. S. C. WILDL. 14(1):4-5,15, Winter 1967. Photos.

Management and operation of the Terry Pasture Shooting Preserve on Medway plantation at Mount Holly, S. C., are described. The preserve business is only one phase of operation at Medway where the main thrust is pine production on the 7,500 acres. Quail and pheasants are the game offered.

70270 Fishback, J. L. The Percy Priest Project and the development of the Cumberland River Basin. TENN. PLAN. 26(3):65-73, Spring 1967. Map.

The District Engineer for the Nashville District reports on the work of the Corps of Engineers in water resource development. Recreation use of the projects under construction by the Corps of Engineers now receives a great deal of attention.

70271 Fisher, H. Natural beauty and the administration of natural resources. In North American Wildlife and Natural Resources Conference, 31st, Pittsburgh, Pa., 1966. TRANSACTIONS, Washington, Wildlife Management Institute. p.26-33, 1966.

One of the 100 recommendations from the Governor's Conference on Natural Beauty in California treated the concern for environmental quality through education. Education in the appreciation of the quality of our environment is the essential foundation upon which more specific efforts to enhance the environment must rest.

Scientists and philosophers alike have long agreed that beauty, open space, and naturalness are important parts of our emotional and conceptual environment. Children need to see and understand the wonders of nature. Men need to know the stillness of their own mind--the quietness of God's hidden places. Such is the essence of serenity and of deep understanding. It is not suggested that parks and open space and naturalness are the answers to all our problems, but we do need a better balance between the utilitarian and the aesthetic. One recommendation specifically calls for exploring the possibility of increasing the state gasoline tax to obtain acquisition and development funds for recreation, conservation, and urban open space.

As pointed out in the recommendations, one of the key roles of the State is to help local, public, and private agencies to plan and carry out programs for the preservation of natural beauty, open space, and the implementation of conservation practices.

70272 Fisher, J. L. Coping with crises in natural resources. In Texas Conference on Our Environmental Crisis, University of Texas, 1965. PAPERS. Austin, Univ. of Texas, School of Architecture. p.40-47, 1966.

Crisis acts as a catalyst in achieving many worthy results. Yet crisis is the enemy of deliberation and planning. And the deliberative and planning approach--whereby problems are foreseen and acted upon before crisis develops--is best for managing our natural environment. If trends run in the direction of more water pollution, air pollution,

pesticide pollution, and urban disfigurement, then long before these are crisis situations, action should occur so that the trend can be reversed. For beautification and city planning problems, procedure should include fact gathering, analysis, education, consideration of alternative courses of action, decision, and action. There is needed a specific set of policies and actions to turn the tide of battle decisively against pollution and environmental degradation.

70273 Fiske, J. D., Watson, C. E., Coates, P. G. A STUDY OF THE MARINE RESOURCES OF THE NORTH RIVER. 53p. 1966. Ref., maps, tables. (Massachusetts, Division of Marine Fisheries. Monograph series no. 3) SH222 M4A32 No. 3

The North River of Massachusetts supports an active marine sport fishery for winter flounder, striped bass, cod, pollock, mackerel, and haddock. During 1965, the fishery reflected a total expenditure by fishermen of about \$70,000 of which approximately \$12,000 was received in skiff rental and launching ramp fees. A total of 45 fish species were encountered in the study area. The river is a relatively clean coastal river and sport fishing is a major river recreational activity. Sections of Massachusetts State laws which regulate coastal and inland marshes are reprinted. Twelve recommendations to promote wise utilization of marine resources of the North River are given.

70274 Flint, G. W. Purloin that pebble? OUR PUB. LANDS, 16(3): 10-11, Winter 1967. Photos.

The provisions of the Antiquities Act by which the nation safeguards relics and ruins located on public lands and national forest lands are described. The Southwest's extensive Indian ruins are a temptation to acquisitive tourists. Special permission for collecting is granted only to museums, universities, colleges, or other recognized scientific or educational institutions.

70275 Forest Industries Symposium. FOREST INDUSTRIES IN TOMORROW'S ENVIRONMENT. Washington, American Forest Products Industries, Inc. 58p. 1966.

The opportunities and problems of the forest industries in future decades are discussed. As a result of population growth, concentration, affluence, and mobility, some other uses of forest land have more popular appeal than production of timber. Forest lands hold the key to supplies of water, pure air, recreation, and wildlife. All aspects of the use and renewal of this resource should be studied for proper coordination to meet future demands. The influence of industry can be great if it develops rapport with the public and government by demonstrating willingness to grapple with problems that are public as well as corporate.

70276 Former National Park Service Directors, Albright, Drury, and Wirth endorse proposed Redwoods National Park on Mill Creek. PARKS, 7(4):1,5,6, Apr. 1967. Map, photo.

On April 18, Horace M. Albright, Newton B. Drury, and Conrad L. Wirth, all former National Park Service Directors, appeared before the Subcommittee on Parks and Recreation of the Senate Committee on Interior and Insular Affairs in support of the Kuchel Bill, S. 1370, to authorize establishment of a Coast Redwoods National Park of 43,434 acres. Many other organizations which support this park are listed. Provisions of the bill are analyzed.

70277 Foss, P. O. The issues underlying recreation policy. TRENDS PARKS RECREAT. 4(1):5-9, Jan. 1967. Ref., photo.

The relationships among work, leisure, and recreation activity are stressed and consideration is given to physical and mental values, the characteristics of the recreation participant, the allocation of funds for recreation purposes and pollution abatement, kinds of programs, and other factors fundamental to recreation policy.

70278 Fox, I. K. Policy problems in the field of water resources. In Kneese, A. V., Smith, S. C. eds. WATER RESEARCH. Baltimore, Johns Hopkins Press. p.271-289, 1966. Ref.

In an examination of several overriding problems of major significance in the conduct of water resources activities during the next few decades, three main problems are

considered: (1) How to achieve a rational public understanding of water resource use problems and opportunities. (2) How to achieve a reasonable approximation of a social optimum through public decision-making process. (3) How to change policy to accord with the changing environment within which water resources activities are undertaken. HD1694 A1K6

70279 Franson, J. Do you understand Kellett proposal? BADG. SPORTS. 23(8):9, Mar.-Apr. 1967.

The Kellett Committee was appointed in 1966 to submit to the Wisconsin State Legislature a proposal for the consolidation of diverse and numerous State agencies. Much controversy has occurred over the proposal to merge all natural resource functions into a single Department of Natural Resources. Certain features of the bill as they affect conservation, tourism, and recreation are analyzed. Comparisons with several other States in the organization of natural resources departments are included.

70280 Fraser, J. C. Legalized pollution. OUTD. CALIF. 28(1): 16-17,23, Jan.-Feb. 1967. Photos.

A history of the Libby case in California provides far reaching implications for water quality control and points up pressing needs for amendments to California State Law.

70281 Fredeen, G. Universities.
LANDS. ARCHITECT. 57(2):137,
Jan. 1967. Illus.

The problem of creating a long-range master plan for a 360-acre campsite has yielded practical experience for students in Oregon State University's Department of Landscape Architecture and has provided outstanding summer facilities for 165 Camp Fire Girls of the Willamette Council. The students studied the natural ecology of the area and surveyed the needs of the campers to provide a plan encompassing function and design. Facilities, roadways, a nature trail and outdoor classrooms for study are a part of the plan.

70282 "Freeze on sport", suggests Chris Chataway. PARK ADMIN.
32(1):45,48, Jan. 1967.

Discusses an article by Chris Chataway in the Sunday Times of Dec. 4, 1966, that tells of a large reduction in public capital spending on sport in England. The article disputes the optimism of the Sports Council's report that calls for more planning "on the part of the central and local governments for sports and recreation" to supply the "need for more abundant and sophisticated facilities for leisure activities."

70283 Frieswyk, S. H. The arts and communications in recreation and park programs. PARKS RECREAT.
1(12):976-977,980, Dec. 1966.

Today parks, recreation, and the arts should communicate culturally with the public. In this article outstanding examples are presented of

what can be accomplished quantitatively and qualitatively.

70284 Frieswyk, S. H. Federal grants for cultural recreation. PARKS RECREAT. 2(2):22,44-45,
Feb. 1967. Illus.

The National Recreation and Park Association sent out inquiries to 125 park and recreation agencies to determine the extent to which they use Federal grants for cultural recreation purposes. Fifty-three responses indicate many problems in applying for and obtaining sufficient Federal funding. Grants available under various public laws are described.

70285 Frissell, S. S., Jr. Educating recreational professionals. PARKS RECREAT. 2(4):30,54,55, Apr. 1967.

In our need for recreation leaders two types of specialists should be developed: one to handle activity and urban park programs and one to manage recreation programs on wildland areas. Special university recreation departments may be encouraged to provide more sophisticated educational courses but existing recreation curriculums in forestry, landscape architecture, wildlife management, and related departments should be maintained.

70286 Frome, M. The politics of conservation. HOLIDAY, 41(2):78,
79,100,103,114,116, Feb. 1967. Illus.

Significant advances in America's conservation program since the days of Theodore Roosevelt are reviewed. The major conservation and recreation

issues and programs of today are discussed thoroughly. Some prominent politicians are criticized for neglecting or ignoring the conservation needs of our society. Achievements of noted national figures are cited.

70287 Frome, M. Wilderness ignored: the Aleutian Islands. AUDUBON, 69(1):28-40, Jan.-Feb. 1967. Map, photos.

The feud between conservationists and the Air Force over the use of the Aleutians for military purposes is becoming hotter. Its history is reviewed and new developments are reported. In addition, this article discusses the ecological value of the Aleutian Islands in preserving rare birds, plants, wildlife, marine biota, and marine mammals.

70288 Frye, J. Need to protect fish-rich estuaries's stressed. NAT. FISHERM. 49(7):15, Oct. 1966. Photos.

The author discusses the speeches of various speakers at the Marine Technology Society's annual meeting on such subjects as: the protection of estuaries, bays, and coastal seas for recreation use and seafood; the inadequacy of sewage treatment facilities; problems of fish preservation; sea farming, and fisheries of the future.

70289 Gasswint, O. Federal aid to wildlife. KANS. FISH GAME, 23(3): 9-13, 1966. Photos.

State and local fish and wildlife programs have been encouraged through Federal aid. Financial assistance for wildlife and fish restoration research, management, land acquisition, and development for public hunting grounds and fishing waters is derived from excise taxes on sporting arms, ammunition, and fishing gear. The accomplishments of wildlife restoration and fisheries projects in Kansas are reviewed.

70290 Gee, S. R. Salamonie Reservoir--underway. OUTD. IND. 32(2):34-35,37, Nov. 1966. Photos.

This is one of three reservoirs constructed by the U.S. Army Corps of Engineers for the Upper Wabash Valley Control Project in Indiana. The Indiana Department of Natural Resources is leasing the land surrounding the Salamonie River for multiple-use recreation facilities, necessary reforestation, fire protection, and management of the land and water for habitat improvement of fish and game.

70291 Gerchy, E. Game-fish departments supported by funds from hunter, anglers. MINN. OUT-OF-DOORS, 12(2):7, Jan. 1967.

State fish and game departments are supported by hunters and fishermen through license purchase. The program and activities which result from this funding are discussed.

70292 Gillelan, G. H. Don't let the eagle lay an egg. OUTD. LIFE, 138(5):24-28, Nov. 1966.

The Land and Water Conservation Fund Act of 1964 will largely affect Federal refuges, State and national forests, parks, and the broad outdoor recreation field. It will have a lesser effect on the smaller and privately-owned recreation field. It is recommended that action be taken between the private sector and State and Federal governments to arrive at a more equitable balance of the distribution of the funds.

70293 Glick, P. M. The coming transformation of the soil conservation district. J. SOIL WAT. CONSERV. 22(2):44-53, Mar.-Apr. 1967. Ref., photos.

The Soil Conservation District presents some distinctive features. During the last dozen years it has been growing and changing. In this article the focus is upon these changes, upon the strong forces that are producing them, and upon the further changes that these forces are likely to produce within the next 10 to 20 years.

70294 Glover, F. A. Pesticides vs. wildlife. COLO. OUTD. 16(1): 18-21, Jan.-Feb. 1967. Illus.

Pesticides when improperly used can cause severe damage to wildlife. Some of the facts and problems of pesticide use are enumerated. A list of precautions for the use of pesticides is supplied by the Colorado Game, Fish and Parks Dept.

70295 Goodwin, D. G. State of New Jersey sets pace. Provides Board of Recreation Examiners. PARKS. RECREAT. 2(2):16,32, Feb. 1967.

New Jersey has enacted an act to establish within the Dept. of Conservation and Economic Development a Board of Recreation Examiners, whose duty will be to administer a plan of permissive certification and registration for recreation administrators and recreation supervisors. The composition of the board and the requirements for the administrative and supervisory positions are provided.

70296 Gordon, L. S. Public land law review. N. MEX. WILDL. 12(1):1, Jan.-Feb. 1967.

The Director of the New Mexico Department of Game and Fish explains three Federal public land laws, namely, the Act which established the Public Land Law Review Commission, the Multiple Use Act, and the Public Sale Act. All have significance for sportsmen of Western States. The work of the Public Land Law Review Commission, and its effect on New Mexico are considered. The viewpoint of the State's Dept. of Game and Fish was expressed thus: (1) Federal lands of potential recreational value should be held forever in public ownership, (2) these lands should be perpetually open to public hunting and fishing according to State laws and regulations except when public safety or the preservation of the area make it necessary to close them, and (3) the State of New Mexico has the sovereign right to manage and regulate all fish and resident wildlife species and that this should continue

to be recognized by the Federal Government.

70297 Gottschalk, J. S. Managing the waterfowl resource. CONSERV. CATAL. 1(3):7-10, 1967. Photos.

The Director of the Bureau of Sport Fisheries and Wildlife, the agency responsible for the stewardship of migratory waterfowl, presents three major objectives for their management: to maintain a population of nesting, migrating and wintering waterfowl in the U.S. within prescribed limits; to influence migrations of waterfowl in the U.S. and insure each State shares in the benefit of this resource; and to manage migratory waterfowl for the benefit and enjoyment of all people. This includes recreational, aesthetic, and scientific needs. Data-collecting plays a major role in waterfowl management. Kill surveys, duck wing samplings, banding, winter surveys, aerial breeding-ground surveys are utilized in waterfowl studies. Species management is placing the responsibility of pre-recognition on the hunter.

70298 Gottschalk, J. S. Potential effects of the Land and Water Conservation Fund on wildlife. In North American Wildlife and Natural Resources Conference, 31st, Pittsburgh, Pa., 1966. TRANSACTIONS. Washington, Wildlife Management Institute. p.359-365, 1966.

The Land and Water Conservation Fund Act provides one of the most substantial opportunities for wildlife that has been provided to resource

managers by Federal legislation in years. These opportunities are explored with especial emphasis upon the place of fish and wildlife resources within State outdoor recreation plans.

70299 Gottschalk, J. S. Recreation through wildlife management: dilemma or challenge? In National Conference on Policy Issues in Outdoor Recreation, 1966, Logan, Utah. PROCEEDINGS. Logan, Utah State University. p.71-76, 1966.

The Director of the Bureau of Sport Fisheries and Wildlife poses some problems, or dilemmas, that are inherent in the management of the recreation resource known as wildlife--such specific problems as how to balance off different kinds of recreation use because of the conflicting interest between the hunter and non-hunter, or the problem of public ownership of game vs. the private ownership of habitat, or fiscal problems, or the problem of providing a quality "open space" recreation experience amid the mass demand regions. Some partial solutions and suggestions are offered. These problems are not really dilemmas, but are subjects for research and decision making within flexible guidelines.

70300 Governor's Conference on Lake Michigan Pollution, Green Bay and Milwaukee, June 28 - June 30, 1966. PROCEEDINGS. Madison, Wis., Natural Resources Committee of State Agencies, 271p. 1966. Map, tables.

A complete set of Lake Michigan pollution papers and talks of the Natural

Resources Committee of State Agencies are presented. Two conferences, one held at Milwaukee, and one at Green Bay, are reported. Historical reviews are presented from State, Federal and local agencies. Water quality standards are discussed. The compilation includes a conference summary and recommendations for remedial action and supplementary materials consisting of registrations as well as statements by companies and communities on their pollution control efforts.

70301 Gregersen, H. M., Holland, I. I. Leadership and cooperation in forest recreation. J. FOREST. 65(3):180-185, Mar. 1967. Photos., tables.

"Three main areas in foresters' thinking with regard to outdoor recreation are presented. The implications of the defined conflicts and the functional needs for solving outdoor recreation problems are presented. It is concluded that a difficult educational approach is needed for the recreational aspects of forestry and that foresters should be worried about lack of adequate cooperation from other disciplines."

70302 Gresham, G. Colorado, safest place to hunt. WEST. OUTD. 13(10): 32-33, 56, Oct. 1966.

The Colorado Game, Fish and Parks Department, concentrated on quality training in hunting safety in a voluntary program which reached few adults but many teenagers.

70303 Gresham, G. Marco Island. Model for developers. NAT. WILDL. 5(2):4-9, Feb.-Mar. 1967. Photos.

The Marco Island, Florida, development program is an outstanding example of "new and knowledgeable management in the field of creative conservation." The Deltona Corp., the construction and developing firm, created a conservation plan for the Island with Federal, State, County officials and Audubon Society members to preserve the Island's natural resources.

70304 Grieve, A. Legal considerations on equipment and facilities. ATHLET. J. 47(6):38, 40, 76-78, Feb. 1967.

The author discusses the liability of school districts in athletic activities. Defective equipment and unsafe facilities frequently are the cause of legal actions. Various cases are described.

70305 Hall, G. R. Strategy and organization in public land policy. NATUR. RESOURC. J. 7(2):162-182, Apr. 1967.

Four interrelated physical, economic and institutional constraints on public land management are analyzed. The article emphasizes the interconnection between fundamental policy changes and organizational considerations and points out that our ability to improve natural resource policy and management will depend upon our ability to create a governmental framework with the desire and ability to implement policy changes. Also considered are the strategic objectives of land management and

organizational implications from the analysis of the objectives and constraints. These factors are: externalities, exclusionary uses, heterogeneity of public land holdings, and division of governmental responsibility.

70306 Hammer, L. G. What price a river? DUDE RANCH, 36(1):13, 23, Winter 1967.

The article prepared by a Director of Trout Unlimited and presented by the President of that organization at its meeting in Butte, Mont. in Sept. 1966 points out the water-based recreation potential of Montana's streams. Water used for recreation in that State produces 12 times as much economic return as water used for agriculture. In order to realize the best uses of water and thereby increase State income, preserve the natural resources and not imperil other uses, the author suggests two approaches - action on the national level as well as on the State level. On the national level, the Wild Rivers legislation should be supported and a moratorium on dam building declared until some knowledgeable body thoroughly and impartially examines the pros and cons of such projects and considers alternatives, and present and future needs, and the impact of modern technology. At the State level the proposed Montana State Recreational Waterways System should be supported and integrated with existing laws and uses. Finally, the Bureau of Reclamation should not build a dam on the Big Hole River but let it be a free flowing, unspoiled river.

70307 Hamor, W. H. Managing farmland for paid hunting. SOIL. CONSERV. 32(8):171-173, Mar. 1967. Photos., tables.

The private farmer manages his farmland for paid hunting and is advised on methods, quality, conservation, costs and returns of the enterprise.

70308 Hampton, H. D. The Army and the national parks. FOR. HIST. 10(3):2-17, Oct. 1966. Ref., map, photos.

The history of the preservation of national parks and the military administration in the early years by the Army is discussed. The Army's responsibility for road building, preservation against commercial development, destruction of game, and vandalism is traced from 1886 until the establishment of the National Park Service in 1916. Civilian administrators under the Secretary of the Interior were unable to preserve the Yellowstone against encroachments. Therefore, Congress voted to end civilian administration. Later the military administration was extended to Yosemite and Sequoia parks in California when these were established.

70309 Hansen, R. P. Commerce and conservation meet. TRAIL TIMBERL. (576):205-207, Dec. 1966.

Discusses the viewpoints of business-industrial leaders in Colorado at the Third Annual Colorado Open Space Conference of Sept. 24-25, 1966. Although concern and responsibility for environment were expressed, the consideration that quality environment would benefit business was not explored.

70310 Harris, C. D. Problems of State implementation. In North American Wildlife and Natural Resources Conference, 31st, Pittsburgh, Pa., 1966. TRANSACTIONS. Washington, Wildlife Management Institute, p.355-359, 1966.

Although there may be some Federal guidelines, primarily the implementation and administration of State plans developed to meet the Land and Water Conservation Fund requirements are State responsibilities. How the money from this Fund is allocated by the State agencies is discussed. In addition, most States will need additional financing to implement their outdoor recreation programs. Though some funds will flow in from the customary Federal, State, and local sources, and though private capital may provide some financing, still other sources will no doubt have to be developed. More and more legislatures, Federal agencies, and other sources of financing are demanding well-conceived and well-documented plans as a condition to untying the purse-strings. State outdoor recreation needs are going to have to be justified on the basis of systematically collected evidence imaginatively prepared and presented.

70311 Harris, W. R. Aesthetics and undergrounding of utilities. WEST. CITY, 43(2):30-31, Feb. 1967. Photos.

The former city manager of Hermosa Beach, Calif. (18,000 pop.) reports on the efforts to create an aesthetic city environment there. The problem of "wire blight", that increasing forest of TV antennas, utility poles, cross arms,

transformers, and wire canopy shading and screening from sight the natural scenery, was successfully resolved. The problems and benefits connected with the undergrounding of a city's utilities are considered.

70312 Hart, W. J., Graham, W. W. How to rate and rank landscape. LANDS. ARCHITECT. 57(2):121-122, Jan. 1967. Illus.

An attempt to "read" the landscape and to rank land according to recreation capability is described. This is a project of the Canada Land Inventory to classify, map and analyze the rural land according to its potential. The characteristics peculiar to recreational use of land are discussed. Landform seems to be a key to the capacity of any given area to support varied recreation activities.

70313 Hart, W. J. A SYSTEMS APPROACH TO PARK PLANNING. Morges, Switzerland, International Union for the Conservation of Nature and Natural Resources. 118p. 1966. Ref., illus., tables. (IUCN publicat. new ser. Suppl. Paper no.4).

The report, prepared for the International Commission on National Parks of the IUCN, is a pioneering effort to provide a broad systematic approach to park systems planning. It presents the concept and idea of park systems planning as these evolved out of practical experiences in various countries. The author, knowledgeable in land-use planning and former director of parks for the State of Nevada, visited several countries prior to the publication of this study, analyzed their park problems

and suggested development priorities. With the advance of technology and resulting changes in living around the world, park concepts and requirements have also altered. Comparisons among various nations on attitudes toward interrelated systems of parks as a land-use planning technique show wide variations. Even terms convey different meanings from one nation to another. Park systems administrations are discussed and a table illustrates differences among the 19 countries studied. Sources of planning assistance available to the less advanced nations and recommendations for the future development of park systems planning conclude the report.

70314 Hartzog, G. B., Jr. Mission 66 and Parkscape. HIST. PRESERV. 18(4):140-143, July-Aug. 1966. Photos.

No abstract.

70315 Hartzog, G. B., Jr. Policy problems facing the National Park Service. In National Conference on Policy Issues in Outdoor Recreation, 1966, Logan, Utah. PROCEEDINGS. Logan, Utah State University, p.64-70, 1966.

The Director of the National Park Service discusses policy problems. An enlightened citizenry must be aware of a variety of alternatives, each with its social and economic considerations and then be given opportunity for an expression of enlightened opinion. In a democracy, the question is not what is best for the people, but what the people, adequately informed, decide

they want. Public decision should follow from an understanding of the alternatives available and the consequences of each. Involvement of citizens in the policy-making process is only part of the dilemma. Another facet lies in giving the individual citizen a full understanding of the differences in agency programs affecting outdoor recreation. A long series of legislation provides for individual participation in Federal policy-making. A second dilemma is the temptation to establish Federal land acquisition priorities for all agency programs in relation to recreation need alone. Now there is need for new kinds of parks, national parks within urban areas. The dilemmas and the resultant decisions that face outdoor recreation policy makers today will have an influence upon the natural environment which will shape the character of future generations of Americans.

70316 Hartzog, G. B., Jr. Remarks at the Annual Meeting of the Society of Architectural Historians, Cleveland, Ohio, Jan. 27, 1967. U.S. DEPT. OF THE INTERIOR NEWS RELEASE. 7p., Jan. 28, 1967.

The Director of the National Park Service traced the development of national legislation for historic and prehistoric preservation. Congress first enacted the Antiquities Act of 1906, the Historic Sites Act of 1935, a keystone in the historic preservation effort of the national government, and then the National Historic Preservation Act of 1966. Other recent public laws which touch on preservation of historic sites also enacted by the 89th Congress in 1966 are: 1. Federal Aid Highway Act of 1966; 2. Department of Transportation

Act, and 3. Demonstration Cities and Metropolitan Development Act of 1966.

The role of the National Park Service in historic preservation programs is described. The major provisions of the recent legislation express concepts which have been adopted from the best European practices to the conditions and needs of modern America. This is called the "new preservation," which is also considered "creative federalism."

Three innovations in the recent National Historic Preservation Act are detailed: an expanded national register, a 17-member National Advisory Council on Historic Preservation, and a system of matching grants-in-aid to the States and National Trust for Historic Preservation. In order to enable the National Park Service to carry out its new responsibilities, major organizational changes and the establishment of an Office of Archeology and Historic Preservation are underway.

70317 Held, R. B. Whose public lands? *NATUR. RESOURC. J.* 7(2): 153-162, Apr. 1967.

An appraisal is made of the land laws and policies of the past with overtones of decision-making for the future. Two questions form parts of a basic issue which has yet to be resolved: who is entitled to decide how public land resources are used, and, should any user group be entitled to preferential treatment? A new interest in the public lands is coming about with particular emphasis on involvement in the local sector. A reevaluation of some Federal lands require

transformation of some lands from physical goods to recreation enjoyment. Justice and equity call for a careful analysis of such situations and for provisions to off-set local losses. If such losses can be compensated and the net profit to society is greater than before the shift in the use of resources, the larger public should insist on the recognition of its fundamental interest in these resources, for the Federal lands do belong to the public.

70318 Hella, U. W. Managing human use of natural parks. *PARKS RECREAT.* 2(1):34-35, 50-52, Jan. 1967.

The Director of the Minnesota Division of State Parks suggests a nine-point program designed to accommodate more people in the future while still protecting natural park values.

70319 Heller, A. N. Do your city planners know about air pollution? *AMER. CITY*, 82(4):91-94, Apr. 1967. Photos.

Air pollution is a problem which planners should control through land-use studies on a regional scope. Causes and effects of this serious health hazard, as well as possible solutions for dealing with air impurities are discussed.

70320 Hendee, J. AN EVALUATION OF THE NORTH CASCADES STUDY REPORT AS A BASIS FOR DECISION MAKING. Seattle, Univ. of Washington. 14p. 1966. Ref., maps. (Washington (State) University. College of Forestry. Institute of

Forest Products. Contribution
No. 2).

Questions are raised on some significant points of the North Cascades Study Report. They involve the analysis of benefits and costs of the project; the kinds of recreation needed, expenditures for out-of-State visitors; access routes; wilderness resources; statutory assurances for a national park; jurisdiction; public attitudes; alternative solutions to recreation supply problems.

70321 Hensler, R. G. Waterfowl habitat management. Little Missouri River National Grasslands, Custer National Forest. N. DAK. OUTD. 29(6):12-14, Dec. 1966.

The Northern Great Plains is not conducive to waterfowl nesting habitat because of its drought and poor water conditions. Therefore, other areas such as the Little Missouri River National Grasslands must be depended upon for livestock breeding. The Grasslands have more than 1,000 reservoirs, and about 50 new reservoirs are constructed each year for livestock water. Better range improvements and management will result in better distribution of livestock. The Job Corps Conservation Center at Dickinson is instrumental in improved waterfowl, upland game, and deer habitat.

70322 Heuston, J. Beautiful Buffalo. SOUTHW. HOL. 20(6):35-37, June 1966. Photo.

Presents the National Park Service's proposed Buffalo National River project as an alternative to the

Corps of Engineers' plan for a multi-purpose dam which would inundate much of the popular and scenic mid-section of the river and destroy bass fishing downstream. A study by the University of Arkansas, College of Business Administration, gave an impressive account of the economic impact of the Buffalo National River on the region.

70323 Hickman, K. Oases for the future. SCIENCE, 154(3749):612-617, Nov. 4, 1966. Ref.

"New trends in gaining, using and conserving fresh water are here or on the horizon." By the year 2000 water consumption will be on an average twice as great as it is today. The main problem is not availability but pollution which reduces the resource for human consumption, as has occurred in the Great Lakes region. The costs of processing vs. conveyance are subject to evaluation. New concepts in conservation, management, processing and use patterns of water are discussed.

70324 Hinel, B. A pack of pleasure. NEBRASKALAND, 44(11):44-47, Nov. 1966. Photos., table.

As a result of the Land and Conservation Fund there is much improvement in recreation areas in Nebraska. The Nebraska Legislature through the LB26 and the LB485 laws which are effective until July 1, 1967, has designated proceeds from a cigarette tax increase to be divided among the Land and Water Conservation Fund, educational television, and construction of access roads.

70325 Hodgdon, K. W. Wildlife and hunting on commercial forests in Maine. In North American Wildlife and Natural Resources Conference, 31st, Pittsburgh, Pa., 1966. TRANSACTIONS. Washington, Wildlife Management Institute, p.280-288, 1966. Ref., maps, tables.

Deer management in the commercial forest lands of Maine is described and illustrated. SK351 N872 1966.

70326 Holweg, A. W. Improving your land for wildlife. CONSERVATIONIST, 21(3):21-27, 38, Dec.-Jan. 1966-67. Illus.

Land salvaged, managed, and maintained to create open grassy areas on better soils, to keep other areas in brush stage or to improve or actually create wetland areas provides improved habitat for wildlife. Grass and legume plantings, grain plantings, cuttings, planting of trees and shrubs, creation of ponds and housing and protection of wildlife are tools for improved wildlife habitat management which are discussed.

70327 Hopkins, W. S. Rangeland - an enjoyment challenge. Speech presented at the Annual Meeting of the American Society of Range Management, Seattle, Washington, Feb. 16, 1967. 16p. 1967.

Today range and forest lands are being developed for the enjoyment of people. The interpretation of ecology provides recreation and education toward conservation of the natural resource.

70328 Horse pasture area is being enlarged. S.C. WILDL. 14(1):2-3, 7, Winter 1967. Photos.

A progress report and future development plans for 68,000 acres of mountain land donated to the Wildlife Resources Dept. by the Duke Power Co. are provided. The area will be left in a wild condition but one new access road will cross the territory. The impoundment of rivers may allow fishing for trout, bass and walleye. Plans include wilderness features for hiking, camping and nature tours.

70329 Howes, R. M. TVA'S Land Between the Lakes already drawing thousands. TRENDS PARKS RECREAT. 4(1):1-2, 22-24, Jan. 1967. Photos.

The Tennessee Valley Authority is developing Land Between the Lakes (Western Kentucky and Tennessee) as a national outdoor recreation and conservation education area. The 170,000 acres will be divided into sections left substantially unchanged and areas on which facilities for recreation will be provided. This new venture is of great interest to State, county, city officials, private investors and foreign countries.

70330 Humphrey, H. H. Regional cooperation in conservation. SOIL CONSERV. 32(6):123-125, Jan. 1967. Photos.

There is an increased interest, cooperation and teamwork between the Federal Government, the States, and other governmental units in multiple-use resource development and conservation programs. The author, Vice-President Hubert Humphrey, cites the

North country around Lakes Superior, Michigan and Huron as an example. Recent legislation, such as the Water Resources Planning Act, broad regional planning, such as the Pri-Ru-Ta RC&D Project in Wisconsin, and a better use of natural resources, is improving the American landscape and promoting economic growth.

70331 Hunkins, R. B. Criminal jurisdiction in the national parks - a clarification. LAND WAT. LAW REV. 2(1):151-163, 1967.

It is the position of this article that whenever the Federal Government operates an area as a national park, it has at least concurrent criminal jurisdiction with the State, with all of the incidents and authority which the term "criminal jurisdiction" implies. In most "proprietary" areas administered by the National Park Service, there is confusion as to exactly how much authority the Ranger Division has in investigating criminal matters and from what sources this authority is derived. Because of the bewildering and indecisive views on the applicability of the Federal criminal statutes in areas of less than exclusive jurisdiction, these tools are seldom used.

70332 Is legislation the answer? PARKS RECREAT. 2(4):17, Apr. 1967.

To protect park land, Attorney Lois G. Forer of Philadelphia proposes the enactment of Federal and State legislation containing the following features: (1) provision for a commission to determine and declare places of aesthetic or historic

interest to be dedicated to the public and not subject to diversion; (2) a finding that all such property donated to or acquired by a governmental body and all property used by the public for park or recreation purposes for twenty years or more shall be deemed to be held in perpetual trust for the benefit of the public; (3) a limitation on all condemnations and acquisitions of such property unless there is no feasible alternative; (4) a guarantee that if such property is taken the proceeds are to be held in trust to replace the property taken with similar property; (5) a requirement that notice of such proposed acquisition be given to the public with their ability to sue in any court where the property is situated; (6) a provision for payment of costs and reasonable counsel fees.

70333 Its only enemy is apathy. Support National Monument status for the Florissant Fossil Beds. TRAIL TIMBERL. (572):131, Aug. 1966. Photo.

Numerous Colorado outdoor clubs support H. R. 8031, bill to establish the Florissant Fossil Beds National Monument. The prehistoric plant and animal life makes the area unique and desirable for preservation.

70334 Jackson, J. B. Various aspects of landscape analysis. In Texas Conference on our Environmental Crisis, University of Texas, 1965. PAPERS. Austin, University of Texas, School of Architecture, p.150-157, 1966.

The new element, the highway, and its role in our landscape is fully

explored. A century ago the railroads despoiled the American landscape; in time the nation took action. Now the landscape near highways is subject to new despoilers, the oil companies, trucking companies, utilities and larger chain stores. Control legislation is advocated. HN53 T47 1965

70335 Jipson, A. W., Lindberg, R. Progress in Pri-Ru-Ta. SOIL CONSERV. 32(11):249, June 1967. Photos.

Local people with help from State and USDA agencies are breathing new life into a 3 county area of northwest Wisconsin. Soil and water conservation districts have taken the lead in establishing the Headwaters Pri-Ru-Ta Resource Conservation and Development Project, and measures to solve problems have already been installed. Water control, recreation facilities, forestry and soil conservation will bolster the local economy.

70336 Job Corps center endangers national park. PARKS RECREAT. 2(2):8, 10, Feb. 1967.

The Great Onyx Job Corps Conservation Center established above the cave environs at Mammoth Cave National Park, Kentucky, is damaging to the cave systems in the park. Ground water pollution is a major cause of concern in destroying the underground wilderness.

70337 Johnson, H. A., Huff, J. M. Toward measuring the intangible

values of natural beauty. In Soil Conservation Society of America. PROCEEDINGS, 1966. Albuquerque, N.M. p.68-72, 1967. Ref.

"The beauty of our land is a natural resource," stated President Johnson. "Its preservation is linked to the inner prosperity of the human spirit." In accord with the Presidential statement, this paper shares the thoughts of two economists about resource management, natural beauty, and aesthetic values. Some of the basic objectives of the natural beauty programs are stated. Research teams by drawing on their knowledge of human nature and of decision-making processes may be able to develop a positive approach to the analytic problem of resource management for natural beauty. However, if evaluation is to include all aesthetic and social values, the tool of benefit-cost analysis as a decision-making aid will need some changes and improvements. As the objectives of natural beauty are realized in America, they believe that the national economy will grow and benefits to the welfare of the community as a whole will accrue from the use of these resources.

70338 Johnson, R. J. R. Udall approval seen on plan to clean up major rivers. MINN. OUT-OF-DOORS, 12(6):18, Apr. 1967.

Secretary Udall is expected to approve a program unanimously endorsed by State and Federal agencies on March 20, 1967 to clean up water pollution on the Minnesota, Mississippi, and St. Croix Rivers. Steps involved in the planning and financing are discussed.

70339 Johnson, R. W., Austin, R. A., Jr. Recreational rights and titles to beds on western lakes and streams. NATUR. RESOURC. J. 7(1): 1-52, append., Jan. 1967. Ref.

This article examines the rights of riparians, their licensees, and the public to the use of small, natural lakes and streams of the West when the beds are privately owned. The article considers both the questions of title to beds and rights of surface use. The scope of the article is limited to States west of the Mississippi River. Uses considered include boating, swimming, fishing, viewing and homesite location. There are extensive references to Federal and State laws and court decisions. Nine Western States now recognize a right of use to the surface of lakes and streams by persons other than the owner of the bed. Six States do not recognize such rights but these States base their positions on cases which, for the most part, were decided earlier than those which do recognize some public right. Iowa is found to be unique in that it has adopted the position that beds of non-navigable lakes and streams are still the property of the Federal Government and, therefore, are open to public use. Missouri is unique in that it recognizes limited public rights of public use to lands adjacent to bodies of water. South Dakota recognizes public use rights on the basis of a "pleasure boat" test which the authors believe to be invalid because of controlling Federal court decisions. Private property rights and the general public interest in the use of water for recreational purposes are both recognized. The article concludes that increasing conflicts between

private and public rights and interests will precipitate rapid development of the body of law relating to these matters.

70340 Jones, R. A. Federal lands and the recreation explosion. Remarks before the Natural Beauty and Recreation Congress, Western Region District of the National Association of Counties, Honolulu, Hawaii, Jan. 25, 1967. U.S. DEPT. OF THE INTERIOR NEWS RELEASE. 6p. Jan. 25, 1967.

There are three specific trends within the large subject of Federal lands and the recreation explosion which are significant, increasing private, county, State, local interdependence and cooperation, sometimes called creative federalism in action; the quest for quality in the administration of Federal lands for recreation purposes; recreational use and development of public lands administered by the Bureau of Land Management.

70341 Jones, R. R. Who's a litterbug? DUDE RANCH, 36(2):8, Spring 1967.

Three types of litterbugs are characterized.

70342 Jordan, P. Lake building program in second phase. KY. HAP. HUNT. GROUND, 23(2):4-5, Mar. 1967. Photos.

A description is provided for six lake building projects in Kentucky now in various stages of development.

70343 Kangas, M. E. Copper Country framework program is basis for long-range planning. SOIL CONSERV. 32(6):133-134, Jan. 1966. Photos.

The Copper Country in Michigan is a "broad program area" affecting resource conservation and development. Steps in promoting resource development and the economic improvement of this area are described.

70344 Kansas launches marina development. PARKS RECREAT. 2(6): 29, 37-38, June 1967. Photos.

To provide modern and complete marina facilities for Kansans as well as tourist attractions for out-of-State vacationers is the dual purpose of the new program of marina development in Kansas. Kansas State Park and Resources Authority initiated the program which affects Cheney Lake and Wilson Lake. The advantages and disadvantages of operations of the marinas at each lake are discussed.

70345 Kates, R. The pursuit of beauty. In Symposium on the Price of Aesthetics and Natural Beauty, Columbus, Ohio, 1966. PROCEEDINGS. Columbus, Ohio State University, p.34-50, 1966. Ref.

Professor Kates does not set forth any prescription for the measurement of beauty in the environment except one: that there is not a great deal of it there. Beauty is not commonplace. The problem is not only to eliminate ugliness but to provide beauty, elusive and rare though it may be. The rare, the fragile, the ephemeral, the acknowledged beautiful - these must

be identified and protected. Three forms of providing beauty are suggested: (1) Identification and preservation of the beautiful and good that already exist; (2) Provision of accessibility to existing but unseen beauty; and (3) Beauty in design of the landscape and townscape where none existed before. Public policy should seek not to maximize beauty but minimize ugliness.

70346 Kelley, C. D. Director outlines 10 commandments of hunting safety. ALA. CONSERV. 36(6):6, Oct.-Nov. 1966. Photo.

In order to reduce the number of hunting accidents the Director of the Alabama Conservation Department issues 10 rules for hunting safety at the opening of the hunting season and urges hunters to be familiar with and to abide by the game laws and regulations.

70347 Kelly, A. L. Citizen's view of the pesticide problem. IZAAK WALTON MAG. 32(2):16-17, Feb. 1967.

A past president of the Oregon Division, Izaak Walton League of America, states the policy on Pesticides of the Izaak Walton League; gives statistics about the fish and game resources of Oregon; and makes a plea for regulation and responsibility throughout America in the use of pesticides.

70348 Kelnhofer, G. J., Jr. A prescription for development planning. J. SOIL WAT. CONSERV. 22(1):7-10, Jan.-Feb. 1967.

Fundamental characteristics in "good"

resource development planning are discussed. One essential is adequate scope. Planning should encompass an area large enough to contain the problem. It should be designed as a precedent to action and it should be a continuing activity designed to adapt to condition changes. Planning should be purposeful, directed to accomplish specific objectives, and governed by policies that conform to public views. The planners should function as a part of the management team.

70349 Kerr, D., Kerr, L. CAP = camping quality. How a campground association helps campers. BET. CAMP. 7(8):44-47, Sept.-Oct. 1966. Photos.

A private campground association can benefit both the camper and the owner through mutual cooperation and use of standards, regulations and "a strict code of ethics." The Campground Association of Pennsylvania and its efforts are described. Private campground associations in some States are listed.

70350 Kershow, W. W. Developers help county acquire recreation sites. PARKS RECREAT. 2(2):4, Feb. 1967.

Since 1957, Anne Arundel County, Md. requires all developers to set aside a recreation community area in the amount of 5% of the total land to be developed. The Recreation and Parks Director reviews the plans, determines the location of the recreation area, and holds title until an appropriate community association is created. The County Recreation and Parks Department

provides maintenance equipment, engineering and planning services at cost to the communities for development of these areas.

70351 Kimball, T. L. Do we have too many conservation organizations? COLO. OUTD. 16(2):3-7, Mar.-Apr. 1967. Photos.

More compromise among conservation organizations can mean a singleness of purpose--and a united conservation effort. Conservationists tend to be divided into two groups separated by basic philosophical differences--the protectionists and the sportsmen who actively use the resource. The Executive Director of the National Wildlife Federation cites two recent editorials in which conflicting viewpoints on conservation are presented. In conclusion the author projects the outcome of some national conservation issues during 1967.

70352 Kimball, T. L. The facts about a Redwoods National Park. AMER. FOR. 73(3):20-23, 64-67, Mar. 1967. Photos.

The epitome of natural beauty and scenic wonder has always been the forest primeval. The majestic redwood may appear to stand silent and seemingly defenseless to the saw and the bulldozer, but a groundswell of sentiment across the entire nation favors the preservation of our natural scenic wonders and the wise use of our renewable resources. In this article the facts about the proposed Redwoods National Park are summarized by the Executive Director of the National Wildlife Federation and include his own conclusions and specific recommendations.

70353 Kimball, T. L. Our point of view on preserving the redwoods. NAT. WILDL. 5(3):42-43, Apr.-May 1967. Illus.

The executive director of the National Wildlife Federation discusses the status of the redwood controversy and points up the weaknesses of some of the proposals to preserve the coastal redwood forests in California. The National Wildlife Federation presents 3 recommendations as guideposts for the policy makers.

70354 Kimball, T. L. Wilderness and public lands. LIV. WILDERN. 30(95):14-17, Winter 1966-67. Photos.

About 60% of Federal lands under the jurisdiction of the Bureau of Land Management are the most poorly managed of all Federal lands, but may provide for the mounting public recreation needs. The development of these lands for recreation can take pressure off parks, wildlife areas, and wilderness. At the hearings held by the PLLRC on the future use of these lands commercial interests have far outnumbered conservationists. Many of the lands may be turned over to State or local governments or sold to private individuals or groups. Outmoded land laws and inequities in land use are itemized.

70355 Kozicky, E. L., Madson, J. SHOOTING PRESERVE MANAGEMENT. THE NILO SYSTEM. East Alton, Ill., Winchester Western Press. 31lp. 1966. Ref., illus., photos., tables.

A summary is presented on shooting preserve management as practiced at Nilo Farms located near Brighton, Illinois. The objective of the farm is described as quality hunting in natural surroundings. To attain this goal, careful attention and new techniques are applied to pheasants, mallards, bobwhite quail, chukar partridges, hunter safety, farm management, and various types and designs of plant cover. The physical layout, the problems of satisfying game laws, and economics of game management are discussed. SK36 K8

70356 Kreider, M. B. Physical and physiological factors in fatal exposures to cold. NAT. SPELEOL. SOC. BULL. 29(1):1-11, Jan. 1967. Ref., illus.

The special conditions not usually present simultaneously during cave explorations which contributed to the death of 3 cave explorers recently are: (1) frequent or continuous exposure to cold water, (2) continuation and even intensification of the exposure after the first signs of deterioration from the cold are apparent, (3) the necessity to perform heavy and skilled work in order to make an exit from the cave during this period of increased cold exposure when fatigue from hours of exploring is severe, and (4) wearing of lightweight clothing. When the first signs of deterioration due to cold appeared, re-warming should have begun immediately because this is when body temperature began to drop more rapidly than before. In these cases where death is assumed to be due to hypothermia, it must have dropped very rapidly, since death came within 1-1/2 hours of the first signs

of deterioration. The personal factors which are favorable to the maintenance of body temperature are: good physical fitness which provides a high capacity for exercise and thus for body heat production; good nutritional status; good health; large body size and fat content; abstinence from drugs affecting performance and body function. Since cooling in water is two to four times faster than air, however, the use of protective clothing is necessary. Layered woolen clothing, covered by an outer shell of tight weave which is closed at the cuffs, sleeves and neck to reduce convective cooling, gives the next best protection to that of a foam rubber suit during water immersion.

70357 Laing, A. Text of address to annual meeting of members. CAN. AUDUBON, 29(1):26-31, Jan.-Feb. 1967.

Aspects of the Canadian National Wildlife Policy and Program are discussed by the Minister of the Dept. of Indian Affairs and Northern Development. Research on endangered species, wetlands, migratory birds and pesticides is reviewed. Some of the objectives of the National and Historic Parks Branch are listed and proposals for 15 new parks. The role of trusteeship and its development in Canada is described.

70358 The land squeeze. FLA. WILDL. 20(10):7, Mar. 1967.

Private lands open to recreational pursuits, especially, hunting, are diminishing. Private organizations which assist programs for sportsmen are discussed.

70359 LaPage, W. F. SOME OBSERVATIONS ON CAMPGROUND TRAMPLING & GROUND COVER RESPONSE. Upper Darby, Pa., Northeast Forest Experiment Station. 11p. 1967. Ref., illus., photos., tables. (U.S. Forest Service. Research Paper NE-68).

The Northeastern Forest Experiment Station initiated a study to record changes which occur in composition and density of ground cover on a series of permanent plots located throughout 17 units of a 40-unit campground in the new Buckaloons camping area in the Allegheny National Forest. Observations were continued over a 3-year period, and the findings of each year (1963-1965) are recorded. These findings help to furnish guidelines for design and intensive management of campgrounds to improve their ability to provide a sustained supply of high quality outdoor recreation experience.

70360 Laughing Brook Project. MASS. AUDUBON, 6(5):1-2, Jan. 1967. Photos.

The Massachusetts Audubon Society has preserved the home of the late Thornton W. Burgess, author, at Laughing Brook in Hampden. The Hampden Lions Club is cooperating with the Society in planning a nature center and wildlife sanctuary.

70361 Laycock, G. Dam the Big Hole. FIELD STREAM, 72(1):12-16, 31, May 1967. Map, photos.

The Big Hole River is one of Montana's blue-ribbon trout waters. However, the Bureau of Reclamation has plans to build the \$12 million Reichle Dam, 17 miles above the river's mouth for irrigation purposes. Part of a

complex known as the Jefferson-Whitehall Project, the Dam would create a reservoir 10 miles long and thereby ruin prime fishing waters on the river and any other water-based recreation. This article protests the location and raises the question why the water could not be impounded downstream closer to where it is needed, and, thus preserve Big Hole's recreational future.

70362 Leadabrand, R. What about Mineral King? AMER. FOR. 73(2): 18-20, 51-52, Feb. 1967. Photos.

The projected \$35 million development of the Mineral King region as an all year mountain recreation area by Walt Disney Enterprises has aroused much controversy. Besides the proposed developer, adherents of the plan include the Forest Service, the Tulare County Chamber of Commerce, the Mineral King Committee of the California Ski Association, and Governor Ronald Reagan. Against the plan are the Sierra Club, the National Parks Association, the Wilderness Society, The Santa Maria Riding and Roping Club, and many conservationists. The National Park Service will base its recommendations on the results of the Sequoia-Kings Canyon Wilderness hearings. This paper describes the region, explains the Disney development plan, pinpoints the chief issues at stake, and presents the divergent viewpoints of the most vociferous groups.

70363 Leber, W. P. Partnership planning for water recreation. TRENDS PARKS RECREAT. 4(1):17-19, Jan. 1967. Photos.

The importance of coordination between State governments and Corps of Engineers in recreational development is stressed. There is a greater demand for water resources development for water-associated recreation and other purposes because of population growth, urbanization, highways, and leisure time. Funding and operation of these projects are discussed.

70364 LeFebvre, J. M. Beautifying the environment by elimination of junkyards and refuse dumps. N. DAK. OUTD. 29(1):19, July 1966.

Discusses the programs and actions that can be taken to have a healthy and beautiful community.

70365 Lemmon, L. C. New directions in design for D.C. Department. PARKS RECREAT. 2(5):24-25, 62-64, May 1967. Photos.

The Director of Planning and Development for the District of Columbia Recreation Department describes some new facilities of imaginative design that have been built recently and projects some plans for the future.

70366 Leuenberger, M. A. Demand far exceeds supply for spots to park trailers. WEST. OUTD. NEWS, 13(30): 6, July 29, 1966.

It is recommended that private parks accommodate the increasing needs for camping areas for campers and trailers. The role of the Federal, State and municipal governments and the need for the participation of private enterprise is discussed.

70367 Lewis, J. H., McDermid, R. W. PUBLIC RECREATIONAL USE OF PRIVATE FORESTS IN LOUISIANA. Baton Rouge, Louisiana State University. 24p. 1967. Ref., illus., photos, tables. (Louisiana. Agricultural Experiment Station, Baton Rouge. Bull. no. 618).

A survey of large forest ownerships in Louisiana was made to find out their present policies about recreation use of the forest land by the public. The survey also included the following objectives: to compare the contribution of industrial and non-industrial owners of forest land to forest recreation in Louisiana; to evaluate the effect of size of ownership on contributions to forest recreation in the State; to determine the number of acres of private forest land which are open or closed to public use; to determine the kind of outdoor recreation which is available and permitted on private lands in Louisiana; to discover the problems of the forest landowner which are attendant upon public recreation use of his property; and to find out the opinions of private landowners concerning provisions for future recreation facilities for the general public. Survey findings led to nine conclusions which are presented here.

70368 Lewis, J. H. Recreation and the private forest owner. FOR. FARM. 26(5):8-9, 20, Feb. 1967. Photo., table.

Louisiana State University survey elucidates some of the problems and conflicts created by the pressures for more public recreation, especially forest recreation as a land use on private lands.

70369 Lewis, P. H. Environmental values in the paths of progress. In Texas Conference on Our Environmental Crisis, University of Texas, 1965. PAPERS. Austin, University of Texas, School of Architecture, p.64-68, 1966.

Here is information on the new resource directions in Wisconsin. As identified by the University of Wisconsin's Department of Resource Development and cooperating State agencies, there are 8 landscape patterns which are most meaningful to the citizens of Wisconsin. These are named and explained in this article. HN53 T47 1965

70370 Libby, W. C. Implications of the new leisure for land grant institutions. In National Workshop on Cooperative Extension's Role in Outdoor Recreation, Athens, Ga., 1967. PROCEEDINGS. Athens, Ga., Univ. of Ga. Center for Continuing Education, p.23-28, 1967.

The author discusses contributions of land grant institutions and the Cooperative Extension Service through educational programs for meaningful use of leisure time. A recreational planning service to give entrepreneurs advice on developing and analyzing their resources and potentials would be most beneficial and could make the difference between success and failure of a costly venture. Counseling services to assist adults in educational activities would be invaluable.

70371 Lifetime sports camps. PARKS RECREAT. 2(2):24, 46-47, Feb. 1967. Photos.

Since 1954, over 1000 youngsters have participated in a unique sports program which includes instruction in golf, tennis, horseback riding, boating, canoeing, fishing and swimming at Oglebay Park Sports Camp, Wheeling, W. Va. Groups are arranged according to age and skill levels. Other camps are following similar patterns. One of the newest camps is the Kennedy Sports Camp in Marion, Ohio. Instruction and facilities of both camps are described.

70372 Limit on Yosemite camping. LIV. WILDERN. 30(94):45-46, Autumn 1966.

Emergency action was taken by the National Park Service to relieve the drastic overcrowding of camping areas within Yosemite Valley.

70373 Lincoln's Ford. ECONOMIST, 223(6452):354, Apr. 22-28, 1967. Illus.

Plans for the restoration of Ford Theatre by the National Park Service include the renewal of the entire building and stage set to appear nearly as it did on the evening of April 14, 1865, when Abraham Lincoln was fatally shot. Costs, problems in acquiring period furnishings, and plans for use of the restored theatre and its environs are described.

70374 Lind, C. A program for wildlife. COLO. OUTD. 16(1):22-24, Jan.-Feb. 1967.

The Bureau of Land Management administers more than eight million acres

of land in Colorado. Providing for wildlife is an important part of BLM's multiple-use program. Need for close cooperation with State game departments is stressed.

70375 Lindler, B. Opportunity for sportsmen. VA. WILDL. 27(12):7, Dec. 1966. Photos.

Woodlands open to hunters by the Chesapeake Corporation of Virginia cover 180,000 acres. The Corporation started its "multiple land use" program in 1962. Fisherman are also welcome on Chesapeake lands. Boating and camping facilities are provided. The land management practices of the corporation are described.

70376 Littlefield, E. W. The changing forest preserve. AMER. FOR. 73(3):12-15, 60-63, Mar. 1967. Map, photos.

The New York State Forest Preserve, established by statute in 1885 and given constitutional protection in 1894, has been from its inception a highly controversial issue in New York politics and among conservationists. This controversy assumes new dimensions in 1967 as it may well be one of the agenda subjects of the Constitutional Convention to convene in Albany this year. The present article tries to show how the rigid terminology of the 1894 document has undergone modification and re-interpretation over the past 77 years.

70377 Littleton, J. O. The National Historic Landmarks Program. HIST. PRESERV. 18(4):144-147, July-Aug. 1966. Photos.

No abstract.

70378 Lockridge, R. W., Jr.
Changing views in water resource
use. FLA. NATUR. 40(1):19-20,
Jan. 1967.

Conditions responsible for a new interest in water resources development are listed. Major Lockridge, a Deputy District Engineer, states the position of The Corps of Engineers that conservation must meet the full range of requirements of our increasingly complex urbanized and industrialized civilization and that beauty and wild nature should be preserved. Beauty, preservation of wilderness and wildlife and the recreational function must be evaluated so that treatment of these satisfies the greatest number of people at a cost the public is willing to bear.

70379 Long, H. B. The urban environment and the conservationist.
FLA. NATUR. 40(1):15, Jan. 1967.

The problems facing the conservationist in the urban environment of Florida appear to be larger than local political boundaries and involve numerous levels of government. Florida's desirable climate and the national trend of the population to move to the outer rim of the continent suggest that the urban environment will continue to be developed at an accelerated speed. Since it is felt that concepts of wilderness and the natural environment will change, values and attitudes of aesthetic values vis-a-vis economic values must change to protect all forms of life, including man.

70380 Long Lake Conservation Center will feature teacher training. MINN. OUT-OF-DOORS, 12(2):4, Jan. 1967.

The conservation education training programs at the Long Lake Conservation Center in Minnesota are discussed.

70381 Lucas, W. J. The impact of the new leisure for the Forest Service. In National Workshop on Cooperative Extension's Role in Outdoor Recreation, Athens, Ga., 1967. PROCEEDINGS. Athens, Ga., Univ. of Ga. Center for Continuing Education, p.18-22, 1967.

An official of the Forest Service discusses the importance of selective cutting of timber in forest management. This practice seems to be in conflict with conservation and other uses of forest areas. Public opposition to timber cutting should be overcome by providing proof that logging can be compatible with recreation use, wildlife habitat improvement, and watershed management. Multiple-use management must be understood by the public.

70382 Luce, C. F. Are public land use policies and acquisitions compatible with job stability. Remarks. 65th annual meeting of the National Forest Products Association, Statler-Hilton Hotel, May 8, 1967. U.S. DEPT. OF INTERIOR NEWS RELEASE. 7p. May 8, 1967.

The cacophony of public land policies which has culminated in the Public Land Law Review Commission has brought us to the brink of decision-making in deciding our national

policy vis-a-vis the public domain. A vital and often controversial aspect of public land policy is the question of acquisition. Types of land use such as forestry involved in the acquisition and disposal of land are discussed. The rising need for lands for recreation is pointed out.

70383 Lundy, M. H. Bureau of Outdoor Recreation Activities. In Western Association of State Game and Fish Commissioners. PROCEEDINGS, 46TH ANNUAL CONFERENCE, 1966. Butte, Montana. p.409-415, 1966.

The origins, functions and programs of the Bureau of Outdoor Recreation are described. Basic responsibilities of the Bureau in formulating an outdoor recreation plan for the Nation and Federal coordination with State agencies are reviewed. The impact of the Land and Water Conservation Fund and the acquisition and development assistance programs are described. SK351 W527 1966

70384 Lyon, W. A., Lazarchik, D. A. Influence of state quality standards. AMER. WAT. WORKS ASS. J. 58(9):1106-1108, Sept. 1966.

Pennsylvania laws on water quality--especially the Clean Streams Act--and their enforcement are discussed.

70385 McCue, G. The press and the elusive issues of beauty. In Texas Conference on Our Environmental Crisis, University of Texas, 1965. PAPERS. Austin, University of Texas, School of Architecture,

p.143-150, 1966.

In this discussion of beauty and what to do about it, possible strategies for achieving beauty are mentioned: leave it alone; rescue it; create it. If the people are devoted to the country as a place and as an idea, they will also wish for the object of this devotion to display a loved and well-cared-for look. HN53 T47 1965

70386 McCurdy, D. R., Echelberger, H. E. THE OUTDOOR RECREATION LEASE IN ILLINOIS. Carbondale, Ill., Southern Illinois University. 30p. 1967. Ref., tables. (Southern Illinois University. School of Agriculture. Publication No. 25).

Leases--their conditions, provisions, duration, and other aspects--are dealt with in this publication. Sample leases are included in the appendix.

70387 McCurdy, D. R., Johnson, L. K. RECOMMENDED POLICIES FOR THE DEVELOPMENT AND MANAGEMENT OF STATE PARK SYSTEMS. Carbondale, Ill., Southern Illinois University. 34p. 1967. Ref. (Southern Illinois University. School of Agriculture. Publication No. 26).

State park systems have two main purposes--the preservation of significant features and the provision of outdoor recreation for the public. Thirty-nine State park systems participated in this study, from which came twenty-four policy recommendations: (1) Classification of areas: Definitions suggested by the National Conference on State Parks for parks, monuments and historic sites,

recreation areas, waysides, wilderness areas, nature preserves, beaches, parkways, scenic roads, trails, free flowing streams, and forests. (2) Criteria for selection of areas. (3) Geographic distribution of areas. (4) Inventory and periodic review of areas.

(5) Planning: A comprehensive State-wide plan, a master plan for every major park, a site plan for all developments, and an interpretative master plan for every major park are recommended. (6) Minimum size criteria are given, varying according to the purpose of a park, recreation area, or historic site.

(7) Area boundaries should include all of the area requiring protection, following the natural barriers and roads when possible.

(8) Land acquisition: Lists and explains 14 land acquisition methods for State park systems.

(10) Fees and charges. (11) Concessions: Arrangements for the construction and operation of four different types of concessions are explained. (12) Preservation of original features. (13) Introduction of artificial features. (14) Outdoor recreation facilities and services to be provided. (15) Development and construction of permanent and temporary structures.

(16) Operation and maintenance of facilities. (17) Nonconforming land use. (18) Encroachment. (19) Wildlife management. (20) Vegetation management. (21) Enforcement of regulations. (22) Interpretative and information programs. (23) Park names and historic markers. (24) Personnel.

70388 McInteer, J. F., Jr. Dreaming big. IZAAK WALTON MAG. 32(2): 18-19, Feb. 1967. Photos.

In an address before the Virginia Division of the Izaak Walton League, a State conservation official declares that resource programs should be people-oriented, yet environmental quality is the real concern. Rather than the more limited purpose of providing outdoor recreation only, the quality of the whole, all outdoors, should be the total purpose. "Outdoor recreation resources must be dealt with as interrelated parts of the total environment in which Virginians work, play, and live."

70389 Mackenzie, M. M. Educators list school pool requirements. SWIM. POOL AGE, 40(12):15-17, Dec. 1966. Illus.

The value of swimming instruction on the elementary school level is discussed. Specifications for a learning pool and a program of instruction in fundamental skills of swimming are outlined.

70390 McKeon, W. H., Hollister, W. F., Rodak, M. Public hunting as a game management tool in southeastern New York. In North American Wildlife and Natural Resources Conference, 31st, Pittsburgh, Pa., 1966. TRANSACTIONS. Washington, Wildlife Management Institute, p.307-323, 1966. Ref., maps, illus., tables.

Public hunting keeps the game in southeastern New York under control. The Putnam County Cooperative Area, operating in a region of high hunting pressure and high land values, provides public hunting opportunities--uncommon, without trespassing, in the New York metropolitan region. The basic philosophy behind its operation

is one of giving the sportsman a place to hunt without obligation other than law-abiding and courteous behavior. In carrying out this philosophy, game take per hunter is relegated to second place behind the opportunity to hunt in the field. Game take per hunter on a seasonal basis is one piece of game per 4.3 hunters. Since this has varied from year to year without any noticeable dissatisfaction on the part of the sportsmen, it appears that a full game bag may not be as important as the recreational value derived from a day afield. As a tool of game and hunter management, the Putman County Cooperative Area seems well suited to the urban environment wherein it is located. The cost of operation has declined annually. Its value in hunter education, as reflected by the low accident rate, appears to be high. In fact, its continuing high records of game populations, hunter success, and hunter information are the most reliable in the New York area.

70391 Madsen, J. Uncle's man grab. SOUTHW. HOL. 20(6):41-42, June 1966.

State conservation officers are being lost to Federal agencies. Federal salaries are usually higher and the benefits of the Civil Service System are attractive to State employees. The States could hold good conservation personnel if sportsmen were willing to pay higher license fees and support high quality conservation programs in their State legislatures.

70392 Mammoth Cave. SUMMIT, 13(1):23, Jan.-Feb. 1967.

A protest is voiced by cave explorers, scientists, and researchers against a Job Corps Center installation in Mammoth Cave National Park.

70393 Man-made fishing holes answer pollution threats. PARKS RECREAT. 2(3):34-35, Mar. 1967. Photos.

The National Reservoir Research Program, established by the Bureau of Sport Fisheries and Wildlife, is making a study of the maintenance of reservoir fish production. Along with other relevant facts, this article tells how to set up good "fishing holes" by the stocking of reservoirs.

70394 Marquis, R. W., ed. ENVIRONMENTAL IMPROVEMENT, AIR, WATER, AND SOIL. Washington, Dept. of Agriculture Graduate School. 105p. 1966. Illus., photos.

The Graduate School, Department of Agriculture, sponsored a four-lecture series on Environmental Improvement, held in the Thomas Jefferson Memorial Auditorium in May 1966. Here is reported the text of the whole lecture series, with a preface by the Secretary of Agriculture. Each lecture included an introduction, speech, and two reactions to the speech. Men of many different disciplines participated. The general consensus was that our planning for environmental improvement must be done within the constraints imposed by the institutions of government, appraisal of costs and benefits, and scientific technology. HM206 M35

70395 Marshall, G. Background on Nipomo Dunes - Diablo Canyon issue. SIERRA CLUB BULL. 52(2):3, 8, Feb. 1967.

For a long time the Sierra Club has worked to save the unique scenic, scientific and recreational values of Nipomo Dunes (known also as Oceano and Santa Maria Dunes) in California. Early resolutions passed by the Club and the steps they had taken toward this end are described. When the Pacific Gas and Electric Company purchased property in the Dunes for a power plant, the Sierra Club asked the Company to seek an alternate site. Obliging, the Company selected an alternate site farther up the coast at Diablo Canyon. The Sierra Club Council resolved, if certain provisions were met, to agree with this. Then certain Sierra Club chapters petitioned for a referendum and submitted two non-parallel statements on which the membership was asked to vote.

70396 Massey, J. C. Preservation through documentation. HIST. PRESERV. 18(4):148-151, July-Aug. 1966. Photos.

No abstract.

70397 Matthiessen, P. The last great strand. AUDUBON, 69(2):64-71, Mar.-Apr. 1967. Photos.

Corkscrew Swamp, established as a sanctuary in 1954 after a struggle by conservation groups for the preservation of this largest forest of bald cypress in America, now faces destruction by the

encroachment of land speculators. The Ford Foundation will donate one-third of the purchase price to enlarge the Sanctuary provided the National Audubon Society raises the remainder.

70398 Miller, D. M. Cooperative efforts promote recreation and safety at Smith Mountain Reservoir. VA. WILDL. 28(2):16-18, Feb. 1967. Photos.

The construction of Smith Mountain Reservoir Project by the Appalachian Power Co. has created in an area of Virginia with little in the way of water recreation, one of the largest island lakes in the State, and all of the attendant assets. The lower lake covers 3,400 acres with a 100 mile shoreline. The upper lake covers 20,000 acres and has a shoreline of 500 miles. The latter is ideal for water sportsmen. Land development on these lakes including housing and recreational facilities are described. Safety problems accruing to the water sports and boating are discussed. A full scaled, coordinated safety education campaign is recommended.

70399 Milwaukee County Park Commission plans recreation complex. PARKS RECREAT. 2(5):35, 60-61, May 1967. Photo.

A 50-acre tract of land adjacent to Wilson Park will become the site for a hugh recreation center. Building plans are sketched. Included is a plan for an outdoor Olympic-size swimming pool and an indoor ice skating rink.

70400 Minnesota State Park open house well attended. PARK MAINTEN. 20(1):17, Jan. 1967.

Describes the Open House Day Program for Minnesota State parks.

70401 Minor, H. H., Mrs. Land office "reborn". OUR PUB. LANDS, 16(3):18-19, Winter 1967. Photo.

The "land office" of old Steubenville, Ohio, has been saved and restored with furniture by the efforts of city and county officials, the Chamber of Commerce, patriotic organizations, men's and women's clubs and other groups and individuals.

70402 Morrison, F. B. The role of State governments in conservation. J. SOIL WAT. CONSERV. 22(2):42, Mar.-Apr. 1967.

The responsibilities of State governments in soil and water resource development programs and pertinent legislation are explained.

70403 Moss, F. E. THE WATER CRISIS. New York, Praeger. 305p. 1967. Ref., maps, illus., tables.

Senator Moss of Utah discusses reasons for national water problems and suggests solutions for the water crisis. The book encompasses aspects of the history and politics of water use in the U. S., water pollution, shortage, variability, depletion, and waste. Projects, programs and proposals accomplished, and in process are treated.

HD1694 A5 M5 02

70404 Mounsey, W. B. Stream fishing: can we save it? COLO. OUTD. 16(2):20-21, Mar.-Apr. 1967. Photos.

The stream fishing picture is changing in Colorado as streams are becoming fewer. The reasons for this situation are concentrated living area development and heavy industrial development. Some solutions are mentioned.

70405 Mowbray, A. L. I. clammers worried about marina plan. NAT. FISHERM. 47(11):22-A, Feb. 1967.

Construction of a proposed \$300,000 addition to the Bay Shore marina, Long Island, N. Y., would pollute clam beds for over a quarter of a mile offshore, states Adrian Hoek, president of the Great South Bay Baymen's Association. This Association represents about one thousand commercial clammers in nearby towns. Hoek urged town officials to find an alternate site. They would be deprived of over \$2 million in income over the next six years because some 94 acres of clam beds would be ruined by the dredging.

70406 Municipally operated refreshment stands. PARKS RECREAT. 2(5): 41, 67-69, May 1967. Photo.

The advantages of a municipally operated refreshment stand are given with suggestions for operation.

70407 Munson, K. F. Evolution and revolution - present involvement of Extension Service. In National Workshop on Cooperative Extension's Role in Outdoor Recreation, Athens, Ga., 1967. PROCEEDINGS. Athens, Ga.,

Univ. of Ga. Center for Continuing Education, p.36-40, 1967.

This paper evaluates present functions of the Cooperative Extension Service in recreation education. The program is divided into 4 areas: (1) touristy, (2) recreation enterprises, (3) community services and facilities, and (4) cultural arts. Each area is defined.

70408 Murray, S. A. The Appalachian Trail. NAT. PARKS MAG. 40 (231):4-7, Dec. 1966. Map, photos.

The historical background of the development of the Appalachian Trail and the work of the Appalachian Trail Conference are described. Various proposals are given to preserve the wilderness area of the Trail from infiltration of recreation and other activities.

70409 Murray, S. A. Development on Big Bald. APPALACH. TRAILW. NEWS, 28(1):10-11, Jan. 1967.

Big Bald, the Cherokee Section 12 of the Appalachian Trail which stretches from the Tennessee to the North Carolina state line is planned for a recreational development on the North Carolina side. The Wolf Laurel segment, is the first of the 6,000-acre ski, housing, shopping centers, and other facilities to be developed. Additional information is supplied on the acreage and location.

70410 Nace, R. L. PLANNING WATER SUPPLY FOR THE FUTURE. Speech presented at 35th Annual Meeting, California Municipal Utilities

Association, Sacramento, Calif., 1967. 17p. 1967. Ref.

Planning water for the future implies some knowledge or forecast of future situations and water supply needs. Hydrologists, engineers, economists, sociologists, lawyers and other specialists all have something to contribute to a pooled rational basis for policy and political decisions. The ingredients in this pool must be given a proper mix and their interrelations determined. Three factors tempt planners adversely: too much faith in science and technology; worship of bigness; arrogance toward the landscape.

70411 Nash, H. Why Grand Canyon should not be dammed. SIERRA CLUB BULL. 51(7):8-13, July-Aug. 1966. Photos.

Questions and answers are presented on the proposed dams in Grand Canyon. Discussed are costs of the dams; alternative projects for power production; damage to the Canyon caused by flooding; effect on water supply and quality. Factors which motivate the supporters of the dams are reviewed.

70412 National Conference On Policy Issues In Outdoor Recreation, 1966, Logan, Utah. PROCEEDINGS. Logan, Utah State University, 120p. 1967.

Co-sponsored by the College of Natural Resources, Utah State University, and the Bureau of Outdoor Recreation, Department of the Interior, the National Conference on Policy Issues in Outdoor Recreation convened at Logan, Utah, September 6-8,

1966. Speeches and panel discussions presented different phases and aspects of outdoor recreation policy.

70413 National Parks Association. A preliminary wilderness plan for Sequoia-Kings Canyon National Parks and the surrounding region. NAT. PARKS MAG. 41(232):9-13, Jan. 1967. Maps, photos.

This article is a condensation of the National Parks Association's presentation at public hearings on the establishment of wilderness areas in Sequoia-Kings Canyon National Parks at Fresno, California, November 21-22, 1966.

70414 National Parks Association. A wilderness plan for Isle Royale National Park and the surrounding region. NAT. PARKS MAG. 41(234):18-19, Mar. 1967. Maps.

Here is a synopsis of the National Parks Association presentation made at the National Park Service public hearings at Houghton, Michigan, on January 31, 1967, on the establishment of wilderness in Isle Royale National Park.

70415 National Wildlife Federation. Our point of view about those Grand Canyon dams. NAT. WILDL. 5(2):36-37, Feb.-Mar. 1967. Map.

Factors in decision-making for the proposed Grand Canyon dams are considered. The need for water in the basin, recreational potential and electrical power potential are discussed. Conservationists consider the dams will infringe on the

Grand Canyon National Park and Grand Canyon National Monument.

70416 National Youth Conference on Natural Beauty and Conservation. Washington, D. C., June 26-29, 1966. REPORT TO THE NATION. Rochester, N. Y., Xerox Corp. 36p. 1966. Photos.

A conference of 500 young men and women explored the concept of natural beauty and conservation and resolved to do something about the issues. The Steering Committee selected 10 fields discussed at the White House Conference of Natural Beauty. The ethics of conservation and citizen action were presented by outstanding authorities. Delegates divided into workshops to arrive at specific recommendations.

70417 Natural beauty conference recommends sound conservation programs for State. WAT. LAND LIFE, 8(4):6-7, Dec. 1966.

The first annual Governor's Conference on Natural Beauty convened at Hershey, Pennsylvania, September 12 and 13, 1966. Its delegates submitted more than 100 recommendations for preserving and enhancing the natural beauty of the State. A few of the most important recommendations are listed in this article.

70418 Nature Conservancy buys Murphy's pond. KY. HAP. HUNT. GROUND, 23(1):6-7, Jan. 1967. Photos.

Murphy's Pond, Kentucky's last stand of virgin cypress and relatively undisturbed swampland has been saved

from destruction by the Nature Conservancy of Kentucky.

70419 Neal, E. Redwood play areas open. WES. OUTD. 13(6):14-15, 61, June 1966. Map, photos.

As a result of a successful experiment in recreationist-landowner relations, the California Redwood Association has opened some of its private lands to public recreation. Presently, there are over 300,000 acres divided into 22 areas which are used for fishing, hunting, hiking, picnicking, camping, rock collecting, boating, skin-diving, and beachcombing.

70420 Nelson, B. The coast redwoods: Struggle over national park proposals. SCIENCE, 153(3744): 1620-1623, Sept. 30, 1966. Map.

For the conservationist, destruction of the redwoods is an irreversible tragedy. Despite widespread support, the Redwood National Park measure faces several obstacles. Lumber companies continued to cut the trees in the proposed park area until pressure was brought to bear by the President. Exact sites are still under discussion, but passage of a park bill seems likely.

70421 Nelson, G. America's last chance. In Texas Conference on Our Environmental Crisis, University of Texas, 1965. PAPERS. Austin, University of Texas, School of Architecture, p.56-63, 1966.

Senator Gaylord Nelson views with alarm the desecration of America's natural resources--not only water

resources but air, soil, forests, minerals, and the beauty of the landscape as well--and emphasizes the importance of proper husbanding of these resources. Leadership is and should come from the Federal government. HN53 T47 1965

70422 Nelson, S. B. A program of regional planning can solve water problems of the West. WEST. CITY, 42(10):23-26, Oct. 1966. Illus., photos.

No abstract.

70423 Netboy, A. Preservation of natural beauty in England. AMER. FOR. 73(3):16-19, 52-54, Mar. 1967. Photos.

One of England's greatest attractions is the harmony of man and nature, built up over the centuries. Not only is this article a description of the natural beauties of Britain, but furnishes a glimpse into their preservation methods. The British act on the premise that the secret of success in protecting natural beauty is planning controls. Effective zoning, planned land use, and legislative actions implement creative and realistic planning.

70424 Netherton, R. D., Markham, M. ROADSIDE DEVELOPMENT AND BEAUTIFICATION. LEGAL AUTHORITY AND METHODS. Washington, National Research Council. 2v. 1965-66. Ref., illus.

The Highway Research Board reports on the state of the art in various aspects of the theory and technology of roadside development and beautification. Part I dealt with the

basic concept of combining functionalism and amenity in the highway and its corridor and the implementation of this concept through various forms of public acquisition of real estate, and the landscaping of rights-of-way and roadside areas.

Part II discussed the implementation of roadside development and beautification objectives through regulation of land use under the police power. Particular attention is given to control of outdoor advertising and junkyards along highways, achievement of amenity through land use zoning and establishment and enforcement of standards for laying out and building subdivisions. TE153 N4

70425 New England Camping Association. Available funding for day camps. CAMP. MAG. 39(3):48-49, Mar. 1967.

Nonprofit organizations, both public and private, that sponsor day camps may be eligible to receive Federal funds for day camping activities. This funding is authorized by the Economic Opportunity Act of 1964 and is operational through the local CAA (Community Action Agency) programs. Camping organizations can develop a day camping program in conjunction with other CAA programs such as the Rural-Urban Community Action Program.

70426 New York State Historic Trust. PARKS RECREAT. 1(12):972, Dec. 1966.

Actions and statements of the Board of Trustees of the New York State Historic Trust are given.

70427 Newhouse, D. The Forest Preserve in the balance. ADIRONDAC, 31(2):28, Mar.-Apr. 1967.

The chances of the Constitutional Convention of New York State to keep Art. XIV, Sect. 1 which protects the State's Forest Preserve are analyzed.

70428 Nichol, H. F. Interagency coordination at the Federal level. In National Workshop on Cooperative Extension's Role in Outdoor Recreation, Athens, Ga., 1967.

PROCEEDINGS. Athens, Ga., Univ. of Ga. Center for Continuing Education, p.7-11, 1967.

The organization and accomplishments of the President's Council on Recreation and Natural Beauty are described. The Federal coordination activities of the Bureau of Outdoor Recreation, U.S.D.I., are listed. These two units of the Federal government have the responsibility to promote coordination of Federal agencies in outdoor recreation. Within the Department of Agriculture, the Working Party on Outdoor Recreation, composed of representatives of those units which are engaged in some program in outdoor recreation, serves as the medium through which the Dept. of Agriculture participates in the Council, the Council Staff, and other government coordinating activities of the Bureau of Outdoor Recreation. The whole scope of the Dept. of Agriculture's outdoor recreation program is under review by the Working Group. The unified team approach in dealing with land resources and with people is the keystone of the Department's efforts to promote outdoor recreation.

70429 Nicoletti, J. P. Berkeley's new marina: Built to operate in the black. PARK MAINTEN. 20(2): 20-22, Feb. 1967. Map, photos., table.

Berkeley Yacht Harbor, Calif., built in 1936 has been expanded and improved and has emerged as the new Berkeley Marina. The funding of the project, the role of the Small Craft Harbors Commission and the breakwater constructed by the Corps of Engineers is described. Parking, motel and other facilities at the marina, and a table listing percentages of revenue from lessees are included.

70430 No dams! AMER. FOR. 73(3): 8, Mar. 1967. Photo.

On Feb. 1, Secretary of the Interior Udall announced that the Administration is abandoning plans for two power-producing dams that would have had an adverse effect on Grand Canyon National Park. Under a new plan, the park will actually be enlarged to take in Marble Gorge, the site of one of the previously-proposed dams. The Bridge Canyon dam proposal will be held in abeyance. Instead of the dams, the Administration proposes that a group of 22 Western public and private utilities build a power plant to provide electricity for pumping water out of the lower Colorado River to supply Arizona areas.

70431 Noble, N. W. Colorado's living museums. TRAIL TIMBERL. (570):100-102, June 1966. Photos.

Three Colorado areas designated by

the Secretary of the Interior as natural areas are described. These are Leopard Lizard, Summerville Mesa and North Sand Dunes Natural Areas. These lands, administered by the Bureau of Land Management, are reserved as outdoor laboratories for research in botany, geology, and archeology. They are "living museums" of nature almost untouched by man. BLM has declared that some public use may be permitted.

70432 Noble, N. W., Highway for homesteaders. OUR PUB. LANDS, 16 (2):8-10, Fall 1966. Map, photos.

The past and present history of the Santa Fe Trail is discussed. Secretary of the Interior Udall has recommended that the Trail be designated as a national scenic trail.

70433 Northrop, V. C. The Delaware River Basin Commission, a prototype in river basin development. J. SOIL WAT. CONSERV. 22(2):58-61, Mar.-Apr. 1967. Photos.

The Delaware River Basin Compact achieved some distinct innovations. It was (1) the first compact to which the Federal government subscribed as a member; (2) the first Federal-Interstate compact which in one body provided authorities covering the planning, regulation, financing, construction, operation and coordination of all aspects of planning and programming for water resource development.

The Delaware River Basin Commission's areas of control and development include water supply, pollution control, flood protection, watershed management, recreation, hydroelectric power, and the regulation of water

withdrawals and diversions. The article summarizes how this Federal-Interstate compact organization has been successfully dealing with water resources development and management problems.

70434 O'Callaghan, J. A. The mining law and multiple use. NATUR. RESOURC. J. 7(2):242-251, Apr. 1967.

The new factor that the Public Land Law Review Commission brings into the consideration of public land policy is explained in this article. It discusses mining laws and multiple use principles and all of the new concepts of public land management. Finally, it tells how the Bureau of Land Management must use these principles and concepts to administer the public lands in accordance with the direction of Congress.

70435 Oldendorph, O. F. Monument Valley. A Navajo tribal park. NAT. PARKS MAG. 40(227):4-8, Aug. 1966. Photos.

The Navajo Tribal Council handles Monument Valley's red rock buttes and pinnacles as a park for vacationing Americans. New roads, a visitor center, and camp sites provide access to and facilities for this newly opened area. Antiquities such as old pueblo ruins or abandoned Navajo hogans are carefully protected.

70436 Olmsted, N. W. Recreation in the multiple use complex. N. Y. FOREST. 24(2):10-14, May 1967.

An official of a lumber company with major holdings in the New York State Forest Preserve describes the firm's management for recreation use. Ecological relationships and the effect on the natural environment are considered.

70437 Orr, H. R., Analytical approach to design. PARK MAINTEN. 20(2):34-37, Feb. 1967.

Howard R. Orr, landscape architect, U.S. Forest Service, emphasizes importance of design for site planning. The maximum utility of site, minimum impact of site, and greatest user satisfaction can be accomplished by an analytical approach regarding size of site, user characteristics, type of activity involved, and safety factors.

70438 Ottersen, S. R., comp. READINGS ON NATURAL BEAUTY. A SELECTED BIBLIOGRAPHY. Washington, Dept. of the Interior. 94p. 1967. (U.S. Dept. of the Interior, Dept. Library. Bibliography No. 1).

This bibliography consists of a selected list of references on natural beauty and related subjects of material published after August 1964. It supplements an earlier bibliography entitled "Readings on the Preservation of Natural Beauty." Arrangement is according to ten categories: the environmental setting; planning; environmental pollution; urban townscape; landscape architecture and plant materials; historic preservation; rural landscape; outdoor recreation environment; transportation, and citizen action.

70439 Owens, H. B. The public's responsibility to the American landscape. In Texas Conference on Our Environmental Crisis, University of Texas, 1965. PAPERS. Austin, University of Texas, School of Architecture, p.132-136, 1966.

America lacks a certain quiet, humanized background to life--a composite of beauty, charm and tranquility. Instead we have blighted urban areas where the beauties of nature are blotted out by dust, smoke, noise, disorder, and neglect. Much of our landscape seems to have been created for the benefit of machines rather than man. We seem more anxious to accommodate cars, trucks, trains, buses, planes, motor boats, vending machines, and farm implements, than we are to accommodate people. Although there is much to say in favor of rugged individualism and private enterprise, they have not done much for the beauty of the American landscape. We must work together to solve such problems as the disappearance of open space, the preservation of architecturally significant landmarks, and the improvement of particular areas of the public landscape that need attention. HN53 T47 1965

70440 Paine, B. B. The things that pollute. N. H. AUDUBON QUART. 20 (1):17-18, Jan. 1967.

A large variety of pollutants are named and explained--salt, oily wastes, abnormal heat, and industrial wastes which include new chemical substances. Storm-water runoff is also a major source of water pollution in cities. The Federal government is now providing

\$60 million to find better ways of dealing with storm runoff.

70441 Paine, L. A. ACCIDENTS CAUSED BY HAZARDOUS TREES ON CALIFORNIA FOREST RECREATION SITES. Berkeley, Calif., Pacific Southwest Forest & Range Experiment Station, 3p. 1966. Table. (U.S. Forest Service Research Note PSW-133).

"From 1959 to early 1966, tree failures caused an average of more than two injuries or deaths per year on forest recreation sites in California. Annual property damage is estimated at \$25,100. Conifers accounted for three of every four accidents reported; pines and true firs were involved in 6 of every 10 incidents involving property damage, and in 9 of every 10 failures resulting in death or injury. These findings are from data reported by or through Federal land agencies."

70442 Parks, J. D. The need index in park planning. PARKS RECREAT. 2(3):28, 58-62, Mar. 1967. Illus.

The need for a neighborhood park depends principally on population density and the distance from any other developed park or recreation area. Thus, the Need Index presented in this article is principally based on the two elements of population and distance. Youth components and Adult components are taken into consideration. The Need Index and its derivations are presented only as guides to decision making. Other factors, such as lot size or Federal funds for "disadvantaged" areas, will need to be considered too. However, the Need Index formula does provide

a firm basis for comparison on the basic criteria.

70443 Partain, L. Soil Conservation Service interests and activities in outdoor recreation development. In National Workshop on Cooperative Extension's Role in Outdoor Recreation, Athens, Ga., 1967. PROCEEDINGS. Athens, Ga., Univ. of Ga. Center for Continuing Education, p.12-16, 1967.

The work of the Soil Conservation Service is outlined in relation to outdoor recreation development. This agency attempts to maintain appropriate liaison with all State and local units in the recreation development on non-Federal rural land and cooperate in coordinated assistance to landowners and local groups.

70444 Participants in 1967 Lifetime Sports Recreation Project. PARKS RECREAT. 2(4):39, 66-69, Apr. 1967.

Over one hundred participating agencies including city and county park and recreation departments, military bases, hospitals and industrial programs are participating in the 1967 Lifetime Sports Recreation Project. They promote techniques to increase participation in instructional programs of the four sports of badminton, bowling, golf and tennis. Special emphasis will be placed on carry-over participation after instruction by providing programs and facilities for continued play. A list of the cooperating agencies is given according to district.

70445 Pearl, M. A. Outdoor Recreation and the Public Land Law Review. In National Conference on Policy Issues in Outdoor Recreation, 1966, Logan, Utah. PROCEEDINGS. Logan, Utah State University, p.37-41, 1967.

The work of the Public Land Law Review Commission and its relation to outdoor recreation are explained. The Commission will not duplicate the work of the Outdoor Recreation Resources Review Commission, but it must compile data necessary to determine various demands on public lands and promulgate policies that will produce optimum use of the public lands for all purposes including recreation.

70446 Penny, L. Outdoor lighting is an integral part of good pool design. In SWIMMING POOL DATA AND REFERENCE ANNUAL, 34:100, 102, 104, 1967. Illus., photos.

Standards and proper placement of outdoor pool lighting systems are described.

70447 Phillips, W. R. A critical look at athletic field maintenance costs. PARK MAINTEN. 20(2):42-43, Feb. 1967. Table.

This article gives figures on maintenance costs of athletic fields in the Pasadena City Schools. A table itemizing a breakdown of the costs involved is provided.

70448 Phipps, D. K. The Public Land Law Review Commission. LAND WAT. LAW REV. 1(2):355-377, 1966.

The first article is published in a series on goals and activities of the Public Land Law Review Commission, established by Congress in 1964 to review and recommend changes in the laws concerning the public domain, which constitutes much of the area of the Western States. The article is an introduction to the Commission, the history leading up to its establishment, its purposes and its personnel.

70449 Pittman, S. A new look at children's playgrounds. PARK ADMIN. 32(1):24-27, 33-35, Jan. 1967. Photos.

Sufficient and adequately equipped playgrounds, adult guidance, leadership, and training for youngsters in their leisure activities can contribute greatly towards decreasing vandalism and delinquency. The social and ethnical problems involved, the kinds of playgrounds possible, the design of new playgrounds, the organization of play centers, and the costs incurred are discussed.

70450 A plan for progress. TEX. PARKS WILDL. 25(2):3-7, Feb. 1967. Photos.

An increase in population, an expanding economy, higher incomes, more leisure time, and growing urbanization are some of the factors contributing to the need for more open spaces in Texas. A long-range outdoor recreation program with priority phases will be undertaken by the Texas Parks and Wildlife Department.

70451 Pomeroy, K. B. A \$1 billion mistake. AMER. FOR. 73(4):23, 44, Apr. 1967.

Bills have been proposed in Congress to give persons who acquire or construct any improvement on natural forest lands a possessory interest. The history behind the proposals, and the details are discussed.

70452 Poston, H. W. Federal pollution control. AMER. WAT. WORKS ASS. J. 58(9):1108-1112, Sept. 1966.

This is an explanation of the Federal role in pollution control as it relates to wastes from water treatment plants, in the light of recent Federal legislation and reorganization aimed at enhancing and preserving the Nation's waters. Discussed are the Federal policy on pollution, Federal aid available to communities, interstate enforcement of water laws, research, river basin programs, water quality standards, technical assistance, required standards, significant bills, the Federal pattern, sources of pollution, and water quality goals.

70453 Price, N. E. This summer take a paid vacation! TRAIL. LIFE, 27(1): 60-61, 126, Jan. 1967. Photos.

Working at a concession in a national park is an excellent way to have a paid summer vacation. Included in the article are the names and addresses of park concessions at 34 national parks.

70454 Primitive area road opposed. LIV. WILDERN. 30(94):44, Autumn 1966.

The Colorado Department of Highways

and the Federal Bureau of Public Roads are critized for proposing and approving alignment of Interstate 70 along Willow and Gore Creeks in Gorge Range-Eagle Nest Primitive Area. The Wilderness Society's views are expressed.

70455 Private school's campus fulfills community needs. AUDUBON, 69(3):80-81, May-June 1967. Photo.

The undeveloped land around the Lakeside School in Spring Valley, N. Y. has become a community nature center. Trails were originally started by the students. Programs for nearly 2000 children and in-service training for their teachers are supervised by naturalists. Various activities and facilities of the center are described.

70456 Public parks and recreation service. Future prospects. PARK ADMIN. 32(4):27-28, Apr. 1966.

The article suggests that lay and professional park administrations and the central and local government authorities make a cooperative effort to integrate attractive and pleasant features with public parks and recreation service. A study should be made of the public leisure needs for recreation and sport, and the personnel training essential to the maintenance and administration of facilities.

70457 Quigley, J. M. What's ahead for the river and the bay? U.S. DEPT. OF THE INTERIOR NEWS RELEASE. 8p. Jan. 19, 1967.

The Commissioner, Federal Water Pollution Control Administration, is optimistic about the future of the nation's water resources. Recent Federal legislation on water pollution control is credited with setting the nation on the long road back to cleaner water. Control measures for the Potomac River and Chesapeake Bay are discussed.

70458 Radonski, G. C. Shoreline folly. WIS. CONSERV. BULL. 31(4): 8-9, July-Aug. 1966. Illus.

Overuse, abuse, poor watershed management, ill placed roads, and pollution of lakes and streams are depleting Wisconsin's water resources. The three shoreline activities of recreation, agriculture, and industry are each responsible for this situation. It is recommended that local units of government introduce zoning and sound water-use programs to alleviate the problem.

70459 Rasmussen, B. L. Multiple use management of land. CAMP. MAG. 39 (1):24-25, Jan. 1967. Photo.

Private land owners may want to manage their woodland properties and operate both private and agency camps. This article gives advice about campground operation of recreation areas and other aspects in a comprehensive multiple use management plan.

70460 Raver, D. Something about the Smokies. WILDL. N. C. 30(8):4-5, Aug. 1966. Photos.

Describes the recreational potential of the Great Smoky Mountains National Park. To preserve and protect its

beauty, the park regulations must be observed.

70461 Read, H. P. The Dunes - the Army - the Battle. IZAAK WALTON MAG. 32(2):10-14, Feb. 1967.

This account gives a case history of the struggle to save the Indiana Dunes. Most of the criticism is directed at the Army Corps of Engineers but the steel companies and the Indiana politicians also are faulted.

70462 RECREATION AND PARK YEARBOOK 1966. Washington, D.C., National Recreation and Park Association. 160p. 1967. Illus., tables.

This is a statistical outline of the public park and recreation movement. All levels of government--Federal, State, and local agencies--are included.

70463 Recreation at NCR. RECREAT. MANAGE. 9(10):7-10, Dec. 1966. Photos.

The National Cash Register Company of Dayton, Ohio, won the 1966 Helms Industrial Recreation Award. Their activities and facilities are described in this article. Skilled leadership plus fine facilities and management support are credited with implementing their victory. Previous winners of the Helms Award are listed.

70464 Regnier, E. H. Recreation in Cooperative Extension programs. A historical panorama. In National Workshop on Cooperative Extension's

Role in Outdoor Recreation, Athens, Ga., 1967. PROCEEDINGS. Athens, Ga., Univ. of Ga. Center for Continuing Education, p.29-35, 1967.

The contributions to the theater and the performing arts by the Cooperative Extension Service promote family-community participation in recreation activities. The National Recreation Association, The National 4-H Development Committee, the Works Project Administration and other organizations are described.

70465 Rettie, D. F. Let's save the most important open space...now! PARKS RECREAT. 2(5):30-31, 54-59, May 1967. Photos.

The Director of HUD's Division of Land Development explains the Open Space Program--its operation at present and its planning for the future.

70466 Richards, H. Malicious damage in parks. PARK ADMIN. 32(4):39-40, Apr. 1966.

A five point program to eliminate vandalism in open spaces, playgrounds and park areas is introduced. It is advocated that: (1) provision be made for adventure playgrounds; (2) park-keepers dress in civilian clothes; (3) publicize the cost of malicious damage to create a greater public awareness; (4) promote a need for greater civic consciousness in the schools; (5) prosecute only in those cases where court punishment is the last resort.

70467 Ridout, O. Maryland's preservation legislation. HIST. PRESERV. 18(4):170-171, July-Aug. 1966. Photos.

No abstract.

70468 Roads in wildlife refuges. LIV. WILDERN. 30(94):46, Autumn 1966.

Roadbuilding in several national wildlife refuges has been carried through the planning stages without objections from the Department of the Interior according to the Wildlife Management Institute. The Interior Dept. has no argument with the Bureau of Public Roads to receive notices of proposed highway locations which infringe upon waterfowl sanctuaries.

70469 Robinson, W. C. Simple economics of outdoor recreation. LAND ECON. 43(1):71-83, Feb. 1967. Ref.

Several economic aspects of outdoor recreation are explored including: (1) the economic rationale for the public provision of outdoor recreation, (2) the resource management problems encountered in supplying such services, (3) optimum financing policies for publicly-supplied recreation. Recreation is projected as a merit service and is often supplied by government to control quality, but the major goal of such programs is not a redistributive one. Some rationing is required to protect resources from overcrowding and deterioration. Pricing would also make possible an accurate evaluation of market benefits derived by consumers from recreation

and would assist planning and allocative decision at both State and Federal levels.

70470 Rockefeller, L. S. Congress for parks and recreation. TRENDS PARKS RECREAT. 4(1):10-12, Jan. 1967. Photo.

In address before the first Congress of the National Recreation and Park Association, Washington, D.C., on Oct. 10, 1966, Laurance S. Rockefeller proposed the following issues for consideration: (1) a greater responsibility of Federal and State governments in the development and maintenance of city parks and recreation areas; (2) the protection of park lands against the encroachment of highways; (3) an increase in recreation opportunities for everyone; (4) increase conservation and recreation education through projects such as nature centers in parks, and recreation programs in the school systems; (5) increase the opportunities for active recreation; (6) encourage new approaches and ideas for parks and recreation; (7) parks should be an integral part of city life; (8) public housing and urban renewal programs should include recreation and natural beauty in their plans.

70471 Rockefeller, M., Rockefeller, L. Parks, plans and people. NAT. GEOGRAPH. 131(1):74-119, Jan. 1967. Map, photos.

The conservation activities of Chile, Argentina, Uruguay, Brazil, and Peru, are described and evaluated. Since the formation of the Latin American Committee on National Parks in 1964, the concept of conservation has grown

dramatically throughout the region. Conservation budgets are increasing; scholars are making studies of soil and water resources and organizing nature conservancies; wildlife refuges are being set aside; and laws for forestry and other natural resources are being rewritten. The authors' experiences in visiting these natural resource areas are described. A tremendous variety of topography, climate and scenic beauty exists in the region.

70472 Rubini, F. F. Revenue facilities and services by lease. Part I. PARKS RECREAT. 2(1):45-46, Jan. 1967.

Tax rates are often insufficient to provide adequate recreation facilities in public parks. Many park officials are turning to private concessionaires to provide services and facilities. Experiences of the Maryland-National Capital Park and Planning Commission in the use of leases for operation of concessions are cited.

70473 Rubini, F. F. Revenue facilities and services by lease. Part II. PARKS RECREAT. 2(3):36, 67-69, Mar. 1967.

The article gives information about a number of different kinds of facilities, particularly revenue-producing facilities, and how they are financed in the State of Maryland.

70474 Russell, D. There ought to be a law. Well, there is. KY. HAP. HUNT. GROUND, 23(1):32-33, Jan. 1967. Photos.

Kentucky enacted into law in June 1964, an act to provide the source of legal action against the disposal of waste or debris which restricts or disturbs the flow of water in the channel or in the floodway of any stream. If enforced, this act should improve recreational quality for sportsmen, fishermen, hunters.

70475 Ryan, J. J. Highway beautification. BET. ROADS, 36(11):32, Nov. 1966.

The Director of the Bureau of Landscaping, New York State Dept. of Public Works, reports on New York's practice in building a beautiful safe and stable highway on a new location at the 14th annual National Highway Conference. The protection and preservation of desirable trees during construction and the maintenance of the landscaped areas are prime considerations.

70476 Sandy, C. R. Camping crisis? Don't you believe it! SPORT. GOODS DEAL. 135(4):304, Jan. 1967.

The Executive Director of the Campground Association of Pennsylvania states that campers will find sufficient facilities if they seek private campgrounds. Camping equipment dealers are urged to direct campers to good guidebooks.

70477 Sanitary landfill: Big decision for small towns. NAT. CIT. 5(2):15-17, Feb. 1967. Photos.

This article gives the historical background of the sanitary landfilling practice as an alternative to open dumping for waste disposal.

Examples of cities which are now using this method are given. The advantages, costs, labor and equipment requirements make this method an attractive one to small cities and communities.

70478 Sawyer, L. E. Habitat restoration. In North American Wildlife and Natural Resources Conference, 31st, Pittsburgh, Pa., 1966. TRANSACTIONS. Washington, D.C., Wildlife Management Institute, p.441-448, 1966.

The reclamation program of the Indiana mining industry is explained. Because of habitat restoration, lands mined in the future, as well as those which have been mined in the past, will not only be of economic value to local communities but will also enhance the beauty of the Hoosier landscape.

70479 Scaife family gift makes possible land purchase for Jennings Reserve. WAT. LAND LIFE, 8(4):4-5, Dec. 1966. Photos.

The Jennings Nature Reserve has received an additional 60 acres of land. This was made possible by a gift to the Western Pennsylvania Conservancy from the Scaife family of Pittsburgh. The article mentions former grants from the same family and also gifts to the Conservancy from other sources. Jennings Reserve visitation figures, including the number of visitors conducted on guided tours, are provided. Information is also given about new facilities that have been built, such as, shelters, new trails, and parking lots.

70480 Scherschligt, O. Our parks system: Where is it headed? S. D. CONSERV. DIG. 34(1):13-15, Jan.-Feb. 1967. Photos.

Users of S. Dakota's state parks increased by 1200 per cent within 15 years. Despite these increases, less than \$250,000 has been spent on capital improvements since 1945. Shortcomings in the park system have become magnified by increased demand. A new plan for capital improvements is being funded in part by the Land and Water Conservation Fund. Economic impact of tourism on the State is mentioned.

70481 Schmidt, V. A. A wilderness proposal for Mammoth Cave National Park. NSS NEWS, 25(3):55-58, Mar. 1967. Map, photo.

The National Speleological Society states its position on including in the National Wilderness Preservation System some of the "underground wilderness" areas of Mammoth Cave National Park. Besides a synopsis of the Society's recommendations for the underground wilderness designation, the article includes a map which shows: (1) areas recommended for surface and underground wilderness, (2) area recommended for underground wilderness, and (3) area recommended for underground wilderness and future surface wilderness.

70482 Schneider, W. J. The experts look at water in the national parks. NAT. PARKS MAG. 40(227):20-21, Aug. 1966. Photos.

The water-oriented work of the Geological Survey in the national

parks is under the supervision of the Water Resources Division. Water for use at visitors centers and accommodations areas is provided by these geologists. In addition to locating water supplies the Survey is conducting over-all water resource appraisals which are needed as guides to proper planning of park development. The Geological Survey also conducts research studies on streamflow and natural environments; glacier movements; hydrologic and hydrobiologic factors in operation.

70483 Schuessler, R. Rule out trouble. BET. CAMP. 7(7):44-45, July-Aug. 1966. Photos.

Many boating accidents can be avoided if boaters would learn and observe boating rules. Safety habits and precautions for small craft safety are listed.

70484 Scofield, W. H. VALUATION OF RECREATIONAL LANDS. Washington, Dept. of Agriculture, Economic Research Service. 11p. 1967. Ref.

In a presentation at the 133rd meeting, American Association for the Advancement of Science in December 1966, the basic principles of valuation of land and the role of price in allocating a scarce resource among alternative uses are discussed. Special attention is paid to public and private acquisition of land for recreation. Alternatives to out-right purchase are described.

70485 Scott, P. A conservation creed. FLA. NATUR. 40(1):22, Jan. 1967.

With thoughtlessness, cruelty and greed, man destroys the natural world around him, but an awakening conscience has induced in him a sense of trusteeship for the earth he lives on. This is a plea for support of the World Wildlife Fund, a world wide conservation effort.

70486 Seattle Garden Club. The Lake Washington Ship Canal. GARD. CLUB. AMER. BULL. 55(1):28-30, Jan. 1967.

The eight-mile Lake Washington Ship Canal is a unique physical feature connecting fresh water lakes with Puget Sound. Beautification is underway on the waterfront property which is divided between governmental agencies (City and Federal) and privately owned industrial sites. Garden clubs are working on the plan. Types of planting, costs and maintenance for the project are analyzed.

70487 Seminar on Urban Design, University of North Carolina, 1962. PERCEPTION AND ENVIRONMENT: FOUNDATIONS OF URBAN DESIGN. Chapel Hill, N.C. 111p. 1966. Photos.

The publication includes nine papers presented at the seminar and discusses the psychological and sensory impact of environment as a basis for urban design. The more than forty participants consisted of: a psychologist, psychiatrist, a "fine arts" group, a cultural anthropologist, city planners, architects, and landscape architects. A biography of each of the seminar participants is given. NA9010 S4 1962

70488 Shedd, E. Report to campers. BET. CAMP. 7(8):12, 48-51, Sept.-Oct. 1966.

An account is given on the pros and cons of wilderness in the Great Smoky Mountains National Park discussed at a hearing in Bryson City, June 15, 1966. Proponents favor a transmountain highway proposed by the National Park Service to extend from Bryson City, N.C. to Townsend, Tenn. The opponents would like to see the natural beauty of the wilderness preserved. Workable alternatives were suggested. The second part of this report discusses the damages to the Everglades as a result of the flood control projects and canal construction of the Corps of Engineers.

70489 Shivers, J. S. PRINCIPLES AND PRACTICES OF RECREATIONAL SERVICE. New York, Macmillan. 507p. 1967. Ref., illus.

A textbook to enable students to understand basic concepts of the recreational service field also serves as a handbook of preferred practices for professional practitioners. The book is divided into two parts, fundamental and applied principles, but each individual concept constitutes all the features, facts, functions and responsibilities of which the area of recreational service is constituted. In this text an attempt has been made to study the meanings, logical relationships, and classification of the basic concepts.

GV14.5 S53

70490 Shomon, J. J. Wake up foresters--you're needed! AMER. FOR. 73(5):12-15, 41, May 1967. Photos.

One reason for the steady deterioration of our natural environment and loss to development is the lack of adequate natural resource professionalism especially in outdoor resources management such as planning, landscape architecture and design, recreation, park administration, public relations, and conservation education. Everywhere ecologically-trained conservationists are being sought--professionals with a forestry, wildlife, or land management background and an aptitude for working with people. Today when millions of dollars are being spent on outdoor recreation, poor planning is spoiling our parks. The five fields in which training is needed are discussed.

70491 Siegler, H. R. What's wrong with damming the Androscoggin? N. H. AUDUBON QUART. 20(2):60-62, Apr. 1967. Photos.

The pros and cons of damming the Androscoggin River are discussed. Conservationists have claimed that fluctuating water levels and inundation of shore habitat will produce poor harvests of fish and deer. The author, Chief of the New Hampshire Fish and Game Division of Game Management, writes with tongue in cheek on the projected impoundment of Androscoggin River.

70492 Silliman, M., Jr. Follow the basic steps to good resource planning. SOIL CONSERV. 32(6):130-132, Jan. 1967. Illus.

An increase in population is changing the needs of the people, shifting the population and demanding more careful development and conservation of human and natural resources. Ten basic steps for resource planning and development are listed.

70493 Siri, W., Adams A. In defense of a victory: the Nipomo Dunes. SIERRA CLUB BULL. 52(2): 4-5, Feb. 1967. Photos.

The case for acceptance of the Board's position is presented. The impairment of a portion of Diablo Canyon must be balanced against the greater values in the Nipomo-Santa Maria Dunes. Strongly advocated is a vote by the membership to support the decision of the Sierra Club Board of Directors to accept the alternate site of Diablo Canyon under certain provisions.

70494 Smith, A. W. The road ahead. NAT. PARKS MAG. 41(232):2, Jan. 1967.

The President of the National Parks Association summarizes some recent achievements, controversies and delays--what is happening and may happen to many specific projects concerning the national parks. He projects plans and prospects for the future.

70495 Smith, A. W., Hart, W. J. A wilderness plan for Lassen Volcanic National Park and the surrounding region. NAT. PARKS MAG. 40(231):12-17, Dec. 1966. Maps, photos.

The National Park Association proposes that the resources of Lassen Volcanic National Park be managed as wilderness and a Regional Plan be developed for the area around the Park. Visitation and participation in a variety of recreation activities are of great importance and can be distributed throughout the area in lieu of concentration within the Park. The principle of regional planning would apply to the entire National Park System. Six specific recommendations proposed by the NPA for Lassen Volcanic National Park are listed.

70496 Smith, C. R., Partain, L. E., Champlin, J. R. RURAL RECREATION FOR PROFIT. Danville, Ill., Interstate. 303p. 1966. Ref., map, illus., photos., tables.

This book is a valuable guide for planning, developing, managing, maintaining and operating business enterprises in rural recreation. The economic possibilities are explored; facts are given on the availability of technical and financial assistance; factors involved in land-use rights and cabin sites are discussed; the potential of various kinds and areas of recreation enterprises are analyzed; and suggestions for successful communication between the recreation supplier and the recreation buyer are offered. GV53 S5

70497 Smith, D. G. A salute to our wonderful National Park Service. TRAIL. LIFE, 26(9):36-37, 81-83, Sept. 1966. Photos.

The article is a tribute to the accomplishments of the National Park

Service on its 50th anniversary. The role of the user and his cooperation in observing rules and regulations are essential in protecting and preserving natural resources.

70498 Smith, D. G. What's happening to outdoor ethics? TRAIL. LIFE, 27(2):42-43, 78, 82, Feb. 1967. Photos.

Widespread abuse of facilities and privileges are hurting all outdoorsmen and motorists. Problems of sanitary disposal of waste plague park and forest rangers. Vandalism and noise add to the problems. Specific cases are discussed.

70499 Smith, D. G. Youth Corps beautifies campgrounds. TRAIL. LIFE, 27(1):62, 149-150, Jan. 1967. Photos.

Boys and girls of Blackfeet Indian Reservation in Montana prove to be capable workers as they brighten up Glacier National Park. They were part of the Neighborhood Youth Corps program which is enabling underprivileged youngsters to help themselves and earn while learning.

70500 Smith, F. E. POLITICS OF CONSERVATION. New York, Pantheon. 338p. 1966. Ref.

The history of American conservation and the development of natural resources is treated from the political viewpoint. The book emphasizes the fact that conservation problems shift with the changing economy and the changing environment. In this step by step account of Congressional and executive action it is apparent

that the bulwark of the conservation movement has been a deep-rooted philosophy that our natural resources must be developed in the interest of our economic well-being; that governmental development or regulation ensures their use for the greatest interest of all the people; and that governmental action is needed not only for protection against monopolistic exploitation but for wisest future use. S930 S48

70501 Smith, P. M., White, W. B. Regional protective associations: A new force in cave conservation. NSS NEWS, 25(2):36-40, Feb. 1967. Map, illus.

The regional protective association plan, as a major goal of the National Speleological Society, is advocated in this article. It is a goal which will provide insurance against the destructive influences of an urbanized society, and assurance that twenty-five years from now there will still be opportunities for both sport and scientific caving.

70502 Smith, R. G. The Kenai National Moose Range. LIV. WILDERN. 30(95):24-32, Winter 1966-67. Maps, photos.

The author describes the geography, wildlife, resources for commerce, scientific investigations, and recreation of the Kenai Peninsula under the jurisdiction of the Bureau of Sport Fisheries and Wildlife. The Kenai National Moose Range protects the moose and provides a natural environment for scientific studies. A section of road is maintained for public recreational use. Current threats to the Moose Range are evaluated.

70503 Smith, T. D. Comprehensive planning for leisure. The role of the regions. PARK. ADMIN. 31(8): 20-21, Aug. 1966.

This paper read at the colloquium, Planning for Leisure, organized by the Institute for Social Research, does not deal in detail with the subject of leisure but points out the need within the planning process for a close relationship in planning for the arts, sports and tourism. Certain ministries of government and the Board of Trade are involved in arts, sports and play as they affect the leisure of British subjects and foreign tourists. National tourist strategy should embrace every important historical center in Britain. Comprehensive planning involves larger road investment. "Research is essential and should be financed by the 'Leisure' Ministries in association with Local Authorities" and should provide for the preparation and production of a National Leisure Policy. Leisure planning will make a major contribution in helping 20th century man to develop on an adequate scale a 21st century environment."

70504 Smithee, K. J. Need for county participation. In North American Wildlife and Natural Resources Conference, 31st, Pittsburgh, Pa., 1966. TRANSACTIONS. Washington, Wildlife Management Institute, p.338-346, 1966.

How county governments can lead in planning, land acquisition, and financing is explained in detail. Excerpts are quoted from the national policy adopted in Honolulu by the National Association of

Counties; and the present park and recreation services of counties are cited. In the future, county responsibility for planning, acquisition, development, and administration of parks and recreation facilities will continue to be centered in the unincorporated areas. Programs will be provided outside municipalities. In addition, county responsibility may be extended to cover all incorporated and unincorporated areas within the county.

70505 Snyder, A. P. Wilderness management. J. FOREST. 64(7):441-446, July 1966. Photos.

A district ranger of Sierra National Forest presents the problems of wilderness areas. The maintenance of trails, camping debris, campsites and dispersal, forage and recreation stock, wilderness timber, and the recreationist in back country are discussed.

70506 Soil Conservation Society of America. Professional Training Committee. The training of the professional in resource conservation. J. SOIL WAT. CONSERV. 22(2):84-85, Mar.-Apr. 1967.

A proposed position statement is presented, with a request for comments from the Soil Conservation Society of America members.

70507 Sports foundation names outstanding Park Depts. The winners: Bend, Ore., Livingston, N. J., Oak Park, Ill., San Diego, Calif. PARK MAINTEN. 20(2):12, Feb. 1967. Photo.

The four city park-recreation departments that are the winners in the annual nation-wide Gold Medal Award contest sponsored by the Sports Foundation, Inc. are: San Diego, Calif., Oak Park, Ill., Livingston, N. J., Bend, Ore. A \$1,000 cash award, a plaque, and a flag are given to communities for outstanding work in park and recreation management and for the participation of cities and counties in recreational activities.

70508 Starnes, R. Quicksand - the baloney bog. FIELD STREAM, 72(1): 20, 22-23, 32, May 1967. Photo.

After the terrifying experience of being mired in quicksand over his boot tops, the writer did some research on quicksand, mud flats, and alkali bogs. This article presents the results of the research and gives excellent advice and step-by-step instructions on how to escape from quicksand.

70509 Starr, S. V. The state of the society. SOARING, 31(3):10-11, Mar. 1967. Photo.

The activities and organization of the Soaring Society of America are described. The purpose of the Society is to promote all phases of soaring. Training programs, contest rules, and the operation of the U. S. International Soaring Teams are among committee accomplishments. Soaring, the Society's official journal, is the most tangible evidence of SSA activity. Plans for the future are analyzed.

70510 Steen, M. O. Elements of successful state plans. In North American Wildlife and Natural Resources Conference, 31st, Pittsburgh, Pa., 1966. TRANSACTIONS. Washington, Wildlife Management Institute, p.347-354, 1966. Ref.

A successful State outdoor recreation plan is one that stimulates a well-financed action program and gives adequate guidelines to meet efficiently the present and future needs of the people in the total field of outdoor recreation. The principal elements of a successful State plan are delineated here. Some specific elements include funding; the development of preliminary plans; coordination with the responsible Federal, State, and local agencies; long-range planning; and good communications among the action agency, the people, the executive branch, and the legislature. Each element is more fully explained. The observation is added that implementation of outdoor recreation projects can be greatly stimulated by the addition of State grants-in-aid.

70511 Stelling, A. C., Mitchell, N. D. County parks and open space planning. PARKS RECREAT. 2(4):28-29, 59, Apr. 1967. Map.

Effective use of park land can form one continuous system of a community's playfields, parks and open space. New approaches to park development connect these open spaces by means of open-space corridors. Concepts treated are stages of initial planning, connection by zoning, public and private operations, extensive uses, maintenance and personalized space.

70512 Stillman, C. W. THE ISSUES IN THE STORM KING CONTROVERSY. Cornwall, N. Y., Harvard Black Rock Forest. 18p. 1966. (Black Rock Forest Papers, No. 27).

Philosophical concepts in the battle between the conservationists and Consolidated Edison over that company's plans to construct a hydro-electric plant near Storm King Mountain in Cornwall, N. Y. are considered. A brief history of the region is given. Con Ed's attempts to get approval from the Federal Power Commission are described. When FPC finally granted the license in March 1965 the real battle to preserve the natural beauty of the Hudson River Valley ensued. Questions of incompatible uses and values are raised.

70513 Strand, F. Pool operator training essential for U.S. SWIM. POOL AGE, 41(1):60, 62, 108, Jan. 1967.

The importance of proper training for swimming pool operators to insure the growth of the public pool industry and safeguard the health of the public, is emphasized. The details and the sponsorship of such a program are discussed.

70514 Street, J. Design in public parks. PARK ADMIN. 31(10):24, 25, 27, 29, Oct. 1966.

The problems of the design of a public park are discussed. It is suggested that advisory offices on park design be established and there be consistency and coordination of the park to its surrounding area and consideration for the needs of

the users. Roberto Burle Marx, a garden designer who has contributed much to preservation of open space and aesthetic values, is discussed.

70515 Suggitt, F. W. Guidelines for staffing and training outdoor recreation in the Cooperative Extension Service. In National Workshop on Cooperative Extension's Role in Outdoor Recreation, Athens, Ga., 1967. PROCEEDINGS. Athens, Ga., Univ. of Ga. Center for Continuing Education, p.103-107, 1967.

Attention is directed to the lack of educational programs by Federal agencies in outdoor recreation. Major issues involved in resource use planning and development are outlined.

70516 Swift, E. For the land. FLA. WILDL. 20(10):5, 34, Mar. 1967.

Connotations of the term "conservation" are discussed and their implications for land use, land management and land law.

70517 Swift, E. Where the need is. FLA. WILDL. 20(8):5, 28, Jan. 1967.

City slums, urban sprawl, water pollution, soil erosion and improper forest management are all man-made problems which have arisen in part from the idea that nature can be ignored. Man cannot outrage nature indefinitely and prosper. A fundamental concept to conservation education should be the teaching of people to live in dignity, no matter how densely populated an area is.

70518 Taylor, L. E. Let's get the elephant out of the Volkswagen. PARKS RECREAT. 2(2):18-19, 34-37, Feb. 1967. Photo., illus., table.

The nation needs the leadership of outstanding physical educators who know the objectives of their field and who are willing to devote full time to the promotion of physical education. Since World War II there has been an increasing demand for park facilities and outdoor recreation areas. Federal and State governments are trying to meet this demand by land acquisition and a multiple use program. Forestry cannot provide leadership for the majority of recreation positions nor can sociology do more than focus upon the patterned regularities of social behavior. Through recreation education America must now be concerned with the art of using leisure time. A great need exists for a department recreation interdisciplinary in nature and free to draw from every other department and area of the university. The manager, leader or superintendent of recreation must see the value of all disciplines.

70519 Teater, R. W. Fulfilling aesthetic and natural beauty goals in an age of technology. In Symposium on the Price of Aesthetics and Natural Beauty, Columbus, Ohio, 1966. PROCEEDINGS. Columbus, Ohio State University, p.23-33, 1966. Maps, illus.

Although technology has helped to create an artificial environment at the expense of natural beauty, it also has a role in improving the natural environment. Man can prevent erosion, floods and pollution;

remove unsightly weeds and damaging insects; and develop new varieties of beautiful flowers and shrubbery. The two kinds of beauty, natural and man-made are difficult to separate. Virgin forests, unfettered streams, and great canyons can be beautiful. But so can highways, skyscrapers, airplanes, reservoirs, and homes. The speaker, Assistant Director of the Ohio Dept. of Natural Resources, cites the development program of the Department to show the practical application of technology to the fulfillment of natural beauty goals. Efforts to make State parks, forests, and wildlife areas more usable by the public through the application of technology are described. Roads, water, facilities, accommodations, picnic areas are all needed. Some areas are intensively developed; others, even in the same park, are left mainly in the natural state and available to the public only by foot trails and overlooks. The natural beauty of the landscape is not destroyed. Technology has permitted the merging of the natural and artificial into one entity, and this results in a more pleasing and comfortable landscape.

70520 Tedder, J. Stop the protests. TRAIL. LIFE, 27(2):26, 46-47, Feb. 1967.

A guest editorial criticizes Trailer Life for allowing publication of too many complaints protesting rules, conditions, and rates in travel trailer parks and campgrounds of all types. Problems of the trailer and camper industry are discussed. Recommendations for articles to promote improvements of relations and conditions between trailerists and the parks and to assist the recreational

vehicle industry in constructive actions to solve the critical shortage of better grade trailer parks.

70521 Tennessee Valley Authority. Division of Forestry Development. FOREST RESOURCES AND INDUSTRIES IN THE TENNESSEE VALLEY. Norris, Tenn. 21p. 1966. Illus., photos.

This report summarizes Tennessee Valley forest resource and industry progress during the 1960-65 period and describes the status of development as of the end of 1965. Results of these latest TVA surveys are also compared with 1946 and earlier data. Though still far from maximum productivity, Valley forests are today yielding more and better wood, better protection for land and water resources, better habitat for wildlife, and better, more numerous opportunities for outdoor recreation. This is an account of success in resource development of a region.

70522 Texas Conference on Our Environmental Crisis, University of Texas, 1965. PAPERS. Austin, University of Texas, School of Architecture, 255p. 1966. Illus.

Papers presented spotlight the conditions of America's environmental crisis in individual and experienced terms for guidance toward constructive actions. Biographical information about principal speakers is included as well as a listing of principal chairmen, panelists, faculty members of the School of Architecture, and other contributors. HN53 T47 1965

70523 Thompson, R. C. Outdoor recreation policy and needed research. N. Y. FOREST. 24(2):20-22, May 1967.

Various definitions of outdoor recreation are given; the relative priority of outdoor recreation over indoor recreation and effectiveness of outdoor recreation programs are considered as they influence public policy decisions. Five areas of research are suggested to aid the policy making function. The need to communicate research results to the executives who wield power is fundamental to successful administration.

70524 Tiller, W. Question and answers about regulatory responsibility. TEX. PARKS WILDL. 25(1): 14-17, Jan. 1967. Map, photos.

A new Regulatory Authority Program places the responsibility for managing wildlife resources in the participating counties in the hands of the Texas Parks and Wildlife Commission whose regulations are based on scientific research of game and fish problems and information gained from public hearings held throughout the State. Legislative and administrative procedures are described.

70525 Trelease, F. J. Alaska's new Water Use Act. LAND WAT. LAW REV. 2(1):1-49, 1967. Ref.

The Alaska Water Use Act is an important piece of water legislation which reflects the most recent stage in the evolution of the doctrine of prior appropriation. This paper presents a detailed examination of the Act from the aspect of its history, scope and shortcomings. The

Act may have value as a guideline for those States desiring legal protection of water uses and orderly procedure for the resolution of conflicts in the area of conservation of water resources. The loss of Article IV with its emphasis on protection of waters for recreation, beauty, fish and wildlife habitat, may appear to be a legislative defeat by dollar minded developers. However, with the existing Fish and Game Law where recreation, fish and game resources provide best use of water, these are protected under the Act by denial or conditioning of appropriation permits in the public interest.

70526 Trepagnier, W. J. Recreation today and tomorrow. MOT. NEWS, 49(9):12-13, 26-27, Mar. 1967. Map, photos.

The "recreation explosion" and programs to supply and satisfy an increased demand for recreation activities and facilities in Michigan are discussed. The Conservation Dept. has been active in planning to meet future recreation needs with monies available through the Land and Water Conservation Fund.

70527 Tryner, J. P. California's state park system continues growth. TRAIL. LIFE, 26(8):64-65, 118-121, 124, Aug. 1966. Photos.

The establishment of State parks in California has made outdoor recreation available in a variety of activities at any time of the year. The State Park System its origin, development, and continued expansion

are described. Units where complete trailer facilities are provided are listed.

70528 Twardzik, L. F., Cary, R. E. Liability insurance for rural recreation enterprises. J. SOIL WAT. CONSERV. 22(3):114-115, May-June 1967. Table.

A rural recreation enterprise must have liability insurance. Even little damage claims can shake an enterprise; a large liability judgment could completely wreck its financial foundation. Described and illustrated are insurance costs as well as two types of insurance policies. The owner's, landlord's and tenant's policy; and the comprehensive general liability policy are the insurance policies which are used to protect recreation enterprises. The effect of incorporation upon liability is discussed also.

70529 Tyler, J. "Let's take nature to the very young." GA. GAME FISH, 2:8-9, Jan. 1967. Photos.

The Georgia Natural Resource Education Council want the children of Georgia to learn in their formative years about nature. The Council started a Natural Resource Use Workshop, a "teach teachers" program, this past summer. The beginning workshops followed a general study pattern of first rock, then soil, then vegetation, then water, then fish and wildlife, and then the ways man uses the resources for recreation. Two workshops are planned for the summer of 1967.

70530 Udall, S. L. Excerpts from the remarks at the National Wildlife Federation's 2nd Annual Conservation Achievement Program, Washington, D. C., Jan. 24, 1967. U.S. DEPT. OF INTERIOR NEWS RELEASE. 4p. Jan. 25, 1967.

Conservation achievements of the past six years are enumerated. These include the establishment of the Bureau of Outdoor Recreation; legislation such as the Wilderness Act and Water Quality Act; the establishment of new national parks, national lakeshores and national seashores, national recreation areas, the Land and Water Conservation Fund; and the White House Conferences on Conservation and Natural Beauty. The country still faces many problems in spite of these legislative milestones.

70531 Udall, S. L. Excerpts of remarks at the meeting of the American Institute of Planners, Washington, D. C., Jan. 28, 1967. U.S. DEPT. OF INTERIOR NEWS RELEASE. 7p. Jan. 28, 1967.

To cope with the growth and problems of the future, planning must become large-scale and multi-disciplinary on a regional or Statewide basis. Examples of this larger planning authority are the six New England States which have joined in a compact to control water pollution; New York and New Jersey in partnership with the Federal government have established the Hudson River Valley Commission. Zoning as a major tool of planning is discussed and its use in the future considered.

70532 Udall, S. L. Neighborhood recreation centers in the District of Columbia. WEEKLY COMP. PRES. DOC. 3(7):275, Feb. 20, 1967.

In a memorandum for President Johnson, Secretary of the Interior, Udall reports on three grants totaling \$490,000 from the Land and Water Conservation Fund to develop neighborhood recreation centers in northeast and southeast Washington. The District of Columbia Recreation Department will direct the projects to develop the Fort Stanton playground and the Fairfax playground in southeast Washington. A new playground on undeveloped land adjoining the National Arboretum between New York Avenue and Bladensburg Road will be designated as the "Arboretum Playground."

70533 Udall, S. L. Remarks at the First Meeting of the National Technical Advisory Committee, State Dept. Auditorium, Washington, D. C., Feb. 27, 1967. U.S. DEPT. OF THE INTERIOR NEWS RELEASE. 4p. Feb. 27, 1967.

Water pollution is coming under control by public demand. The fact that recreation--with which clean water is so intimately associated--has become big business in this country has had much to do with the realization that water pollution in the long run costs more than water pollution control.

70534 Udall, S. L. The war on water pollution. IZAAK WALTON MAG. 32(2): 6-7, Feb. 1967.

At the dedication of the Pacific Northwest Water Laboratory, Corvallis,

Oreg., Secretary Udall reviews pollution problems in the Hudson River, the Great Lakes, and Lake Tahoe. In Oregon, where pollution problems are not as acute, the Columbia and Willamette Rivers can run clean again. Pollution not only can be abated and controlled, it can be prevented. A three-front attack on pollution is presented and water legislation enacted is summarized.

70535 U.S.S.R.'s first national park. AMER. FOR. 73(1):30-31, 49, Jan. 1967. Photos.

Lake Baikal and its surrounding country is the site of the Soviet Union's first national park. Plans for development and the administration of the Park are discussed.

70536 U. S. Bureau of Mines. AUTOMOBILE DISPOSAL, A NATIONAL PROBLEM. Washington. 569p. 1967. Ref., maps, illus., photos., tables.

This is a survey of the auto wrecking and scrap processing industries with case studies of factors that influence the accumulation of automotive scrap.

70537 U. S. Bureau of Outdoor Recreation. FEDERAL CREDIT FOR RECREATION ENTERPRISES. Washington. 82p. 1967. Ref., maps, illus., tables.

This report shows the extent of Federal credit assistance to private enterprise for commercial outdoor recreation ventures and facilities. It resulted from a special three-year study by the Bureau of Outdoor

Recreation in which the effectiveness of Federal credit programs was analyzed from the standpoint of recreational needs. Information was collected on the type of facility financed, total cost, the agency, and related available information about the project. It was found that three Federal agencies - Small Business Administration, Economic Development Administration, and Farmers Home Administration - have credit programs which significantly affect commercial outdoor recreation. To a lesser degree, commercial outdoor recreation is affected by four other Federal agency loan programs - the Bureau of Indian Affairs, Rural Electrification Administration, Veterans Administration, and the Farm Credit Administration. The report may form a basis for changes in the present system of Federal credit aid to private enterprise to better meet national objectives in outdoor recreation.

70538 U. S. Bureau of Outdoor Recreation. OUTDOOR RECREATION ACTION. Washington, Dept. of the Interior, Reports No. 1-4, 1966-67.

This publication is a forum for the reporting of private, local, State and Federal actions in the areas of outdoor recreation and natural beauty. Report No. 1, August 1966, dealt with State and local actions. Report No. 2, January 1967, provided information about 1965-66 Federal actions. Report No. 3, April 1967, concentrated upon 1966-67 Federal, State, local, and private actions. Report No. 4, July 1967, gives information on Federal, State, local, and private actions. It emphasizes two areas of interest in particular - Governors' statements, and State

scenic and wild river proposals.

70539 U. S. Bureau of Outdoor Recreation. OUTDOOR RECREATION PLANNING FOR THE HANDICAPPED. Washington, Govt. Print. Off., 34p. 1967. Ref., illus., photos. (Technical Assistance Bulletin).

This technical assistance bulletin prepared with the cooperation of the National Recreation and Park Association gives information on ways programs and facilities can be adapted to provide for the special needs of the handicapped and describes some examples. It lists the limitations caused by various kinds of handicaps and includes specifications for facilities, equipment, and programs. States and localities are requested to consider needs of the handicapped in planning and administering programs of outdoor recreation. More research is needed in the field of outdoor recreation to provide recreation leadership, facilities, and resources necessary for the handicapped. Several ideas for research projects are suggested. The names and addresses of both private and public agencies which provide assistance are listed at the back.

70540 U. S. Bureau of Outdoor Recreation. OUTDOOR RECREATION SPACE STANDARDS. Washington, Govt. Print. Off., 67p. 1967. Ref., tables.

Here is a compilation of recreation area and facility space standards currently in use by many organizations throughout the United States. An extensive bibliography is included. presented. GV182.2 U49

70541 U. S. Bureau of Outdoor Recreation. OUTDOOR RECREATION TRENDS. Washington, Govt. Print. Off., 24p. 1967. Illus., photos., tables.

This booklet details certain of the intense summertime recreation activity which the Bureau of Outdoor Recreation, Department of the Interior, has found in preparing the Nationwide Outdoor Recreation Plan. Data and evaluations are provided.

70542 U. S. Bureau of Outdoor Recreation. A REPORT ON RECREATION LAND PRICE ESCALATION. Washington, Govt. Print. Off., 33p. 1967.

The report, prepared in response to a Presidential directive by an inter-agency committee of the Dept. of the Interior after consultation with representatives of concerned agencies outside the Department and staff members of both Senate and House Appropriations and Interior and Insular Affairs Committees, makes the following basic conclusions: (1) prices for recreation lands and waters are increasing rapidly (on an average nationally of 5 to 10% annually), (2) to control land price escalation, needed lands should be acquired promptly after authorization, (3) Land and Water Conservation Fund is inadequate to meet outdoor recreation needs during the critical decade ahead, (4) Land and Water Conservation Fund should be augmented by additional revenues from new sources. The reasons for land price escalation are given and 11 first and second priority recommendations for Federal action are proposed to alleviate the situation. Legislative proposals to implement the recommendations are

70543 U. S. Bureau of Sport Fisheries and Wildlife. NATIONAL WILDLIFE REFUGES 1966. 29p. 1967. Map, photos. (Resource publication No. 32).

The National Wildlife Refuge System with 312 refuge units encompasses wildlife protection areas found in every State but five, and is administered by the Bureau of Sport Fisheries and Wildlife, Department of the Interior. Much of the System consists of wetlands but refuges are found from the Arctic to the Tropics and from sea level to nearly 10,000 feet on beaches, salt-water marshes, deserts and in forests. This edition includes information on: new refuges, Canada geese; Alaskan refuges; waterfowl production areas; bird-finding; endangered species; Great Swamp refuge; products of refuge management; flood and storm damages; and recreational use. SH34 A23 No. 32

70544 U. S. Bureau of the Budget. STUDY OF CONCESSIONS ON FEDERAL LANDS AVAILABLE FOR PUBLIC RECREATION. Washington, Executive Office of the President, 24p. 1966. Ref., illus., tables.

At the time President Johnson signed Public Law 89-249 which established procedures and policies governing administration of National Park Service concessions, he requested that the Director of the Bureau of the Budget make a thorough study of policies governing concessions currently in effect and recommend a common approach to the granting of concessions by all Federal agencies. This study is the response from the Bureau of the Budget. Included are the policies of the

Forest Service, the Corps of Engineers, the Tennessee Valley Authority, and other bureaus of the Department of the Interior. The Interior bureaus directly studied were Bureau of Land Management, (which has no statutory authority to enter into concessioner contracts), Bureau of Reclamation, Bureau of Sport Fisheries and Wildlife, National Park Service, and, indirectly, the Bureau of Outdoor Recreation. The policies of the agencies differed on such matters as fees to be paid by concessioners, terms of concessioner contracts, duration of contracts, and the granting of a possessory interest in facilities to the concessioner.

70545 U. S. Congress. House. Committee on Interior and Insular Affairs. COLORADO RIVER BASIN PROJECT. HEARINGS. Washington, Govt. Print. Off., 690p. 1967. Maps, tables. (90th Congress, 1st sess., Serial No. 90-5).

By the purposes of H. R. 3300 and similar bills, there is established the National Water Commission whose responsibilities are enumerated to review present and anticipated natural water resource problems; to consider economic and social consequences of water resource development; and advise on specific water resource matters. Future recreational developments of the Hualapai Tribe are described. The conservation and development of the fish and wildlife resources and the enhancement of recreation opportunities in connection with the project are provided under the Federal Water Project Recreation Act. Costs of the Colorado River Basin Project are enumerated; the recreation potentials

described and evaluated. Benefit-cost analysis for recreation is tabulated with the cost allocation for the recreation purpose at interest for a 100 year period pro-rated on an average annual basis.

The alternatives to the proposed Grand Canyon dams are also discussed. K37 I590 no.5

70546 U. S. Congress. Senate. Committee on Appropriations. CONTROL OF ELK POPULATION, YELLOWSTONE NATIONAL PARK. HEARINGS. Washington. Govt. Print. Off., 142p. 1967. Maps, illus. (90th Congress, 2nd sess.).

No abstract. K38 A616 90:1B

70547 U. S. Congress. Senate. Committee on Commerce. ESTUARINE AREAS AND JELLYFISH CONTROL. HEARING. Washington, Govt. Print. Off., 67p. 1967. Ref., map, illus., photos., tables. (89th Congress, 2d sess. Serial No. 89-81).

Bill S. 3528 authorizes the Secretary of the Interior in cooperation with the States to preserve, protect, develop, restore, and make accessible estuarine areas of value for sport and commercial fishing, wildlife conservation, recreation, and scenic beauty, and for other purposes. To implement this policy a national system of estuarine areas is proposed and the Secretary of the Interior in consultation with the States and other Federal agencies shall conduct a nationwide inventory of estuarine areas. The purpose of S. 3744 is to provide for control or elimination of jellyfish and other sea pests that

are harmful to fish, shellfish, and water-based recreation in the coastal water of the United States. Under this legislation the Secretary of the Interior in cooperation with the States may conduct such studies and programs on an equal cost sharing basis. Letters from Interior Department officials and others, statements of interested Senators, Congressmen, and marine scientists as well as reprints of scientific investigations are included. K38 C7 89 No. 81

70548 U. S. Congress. Senate. Committee on Interior and Insular Affairs. GREAT SALT LAKE NATIONAL MONUMENT. HEARINGS. Washington, Govt. Print. Off., 2pts. 1967. (90th Congress, 1st sess.)

Bill S. 25 provides for the acquisition of the 26,125 acres of land and the 15,300 acres of "relicted lands and waters" of Antelope Island in Utah for a proposed Great Salt Lake National Monument. The Great Salt Lake Authority was established in 1963 to institute programs for development of recreation areas and water conservation in the Great Salt Lake and on the Island. The development and management of recreation facilities by the State of Utah must meet with the agreement of the Secretary of the Interior. K38 I5 90:1E pts.1-2

70549 U. S. Court of Appeals for the Second Circuit. SCENIC HUDSON PRESERVATION CONFERENCE, ET AL V. FEDERAL POWER COMMISSION AND CONSOLIDATED EDISON COMPANY OF NEW YORK, INC. n.p. 30p. 1966 (Case No. 106, Sept. term, 1965).

The Court ruled that the refusal of the Federal Power Commission to receive testimony and give adequate study to gas turbine generators as an alternative to the development of the Storm King Mountain hydro-electric project on the Hudson River in Cornwall, New York was "a disregard of the statute and of judicial mandates" to probe all feasible alternatives. The Court pointed out that the Congress had given the Commission a specific planning responsibility and that as representative of the public interest, "the Commission has an affirmative duty to inquire into and consider all relevant facts." The Court believed the Commission had not given adequate attention to the use of underground transmission lines or to the adverse effect the project would have on the eggs and young of fish spawning in the Hudson River above the site. The Court instructed the Commission to include as a basic concern the preservation of natural beauty and of national historic shrines and to keep in mind that "the cost of a project is only one of several factors to be considered."

354F 2d 608

70550 U. S. Dept. of Agriculture. A GUIDE TO NATURAL BEAUTY. Washington, Govt. Print. Off., 32p. 1967. (Miscellaneous Publication No. 1056).

This booklet is designed to suggest some ways that private citizens in their communities can help build a more beautiful America. Services of the Dept. of Agriculture to assist citizens in the promotion of natural beauty in the home, community and countryside are given.

S21 A46 No. 1056

70551 U. S. Dept. of Commerce. A PROPOSED PROGRAM FOR SCENIC ROADS & PARKWAYS. Washington, Govt. Print. Off., 254p. 1966. Maps, photos.

A report on scenic roads and parkways prepared for the President's Council on Recreation and Natural Beauty. Alternative proposals are explored for developing scenic roads and parkways to provide additional facilities for recreation and driving for pleasure. The study suggests criteria by which a national program could be established and offers guidelines for future program goals and costs.

70552 U. S. Dept. of the Interior. SURFACE MINING AND OUR ENVIRONMENT. A SPECIAL REPORT TO THE NATION. Washington, Govt. Print. Off., 125p. 1967. Ref., maps, illus., photos., tables.

The Surface Mine Study Policy Committee, composed of members from the Dept. of the Interior, Dept. of Agriculture, Dept. of Commerce, Dept. of Health, Education, and Welfare, Dept. of Defense, Tennessee Valley Authority, and the Appalachian Regional Commission prepared this report which covers the nature, extent and significance of surface mining and its impact on environment and other problems. Information on achievements, goals, and the laws that relate to surface mining is given. Recommendations summarize findings, prevention of future damage, repair of past damage, research and investigation, provisions of comprehensive national surface-mined land conservation program and administration of such a program.

70553 U. S. Lewis and Clark Trail Commission. THE LEWIS AND CLARK TRAIL. INTERIM REPORT TO THE PRESIDENT AND TO THE CONGRESS. Washington, Govt. Print. Off., 24p. 1966. Map, photos.

Established by Congress under P.L. 88-630 the Lewis and Clark Trail Commission's purpose is to advise and stimulate the activities of Federal, State, and local agencies and individuals to identify, mark, and keep available for public inspiration and enjoyment the route traversed by Captains Lewis and Clark on their expedition of 1804. The summary of accomplishments of the Commission for 1965-66 is reported. Future action is outlined and resolutions adopted. Actions of the States and Federal agencies to promote the Lewis and Clark Trail Programs are discussed.

70554 U. S. National Council on Marine Resources and Engineering Development. Man's uses of the shoreline. In U. S. National Council on Marine Resources and Engineering Development. MARINE SCIENCE AFFAIRS. Washington, Govt. Print. Off., p.71-73, 1967. Table. (Report No. 1).

Competing uses for coastal resources, nearby urban planning, and estuarine research are discussed. Federal marine science activities in estuaries are delineated by a table which gives each participating Federal agency with its budget for fiscal year 1968. GC1015 U58

70555 U. S. President. (Lyndon B. Johnson). Youth for natural beauty and conservation year. GIRL SCOUT LEAD. 44(3):4, Mar. 1967. Photo.

The President has designated the year 1967 to be Youth for Natural Beauty and Conservation Year and asked that all the young people, individually, and through clubs, school groups, and other organizations observe, plan, and act to preserve and protect, salvage and restore, develop and enhance their surroundings. This is in accord with the objectives of the National Youth Conference on Natural Beauty and Conservation.

70556 U. S. Public Health Service. Division of Environmental Engineering and Food Protection. ENVIRONMENTAL HEALTH GUIDE FOR TRAVEL TRAILER PARKING AREAS. Chicago, Mobile Homes Manufacturers Association. 33p. 1966. Ref., illus.

This publication provides health guidelines to persons responsible for or concerned with planning, designing, operating and maintaining travel trailer parking areas, and for reference in developing Federal, State, or local ordinances, laws or regulations applicable to travel trailer parking areas. Site planning, water supply, sewage disposal, service building, refuse handling, insect and rodent control, electrical distribution, full supply and storage, fire protection and safety and other miscellaneous requirements are considered.

70557 U. S. Public Health Service. Division of Environmental Engineering and Food Protection. ENVIRONMENTAL HEALTH PRACTICE IN RECREATIONAL AREAS. A GUIDE TO THE PLANNING, DESIGN, OPERATION AND MAINTENANCE OF RECREATIONAL AREAS. Washington, Govt. Print. Off., 134p. 1966. Ref.,

illus., tables. (Public Health Service Publication No. 1195).

Public health aspects of recreational areas are discussed and guidelines for health and safety of user in the outdoor environment are given.

Proper drainage and soil permeability, sewage disposal, recreation needs and supply, accommodations, hygiene, insect and rodent control, and water quality are considered.

70558 United States Conference of Mayors. Special Committee on Historic Preservation. WITH HERITAGE SO RICH. New York, Random House. 230p. 1966. Photos., tables.

The report suggests in broad terms approaches to the problem of conserving places and objects of value in individual communities and the nation as a whole. The guidelines set forth are designed to assist the legislative bodies in city councils, State Legislatures and Congress in the discharge of law-making functions regarding historic preservation and the relationship of the land to the national life. E159 S74

70559 Urban America, Inc. WHAT'S NEEDED FOR NEW CITIES . . . TO MAKE THEM ECONOMICALLY VIABLE FORMS THE SUBJECT OF AN URBAN AMERICA MEETING AT BOCA RATON, FLA. Amer. City. 82(4):104, 148, Apr. 1967. Photo.

The success of urban development and growth depends largely on ingenuity, creativeness and wise land-use. New planned communities such as proposed by General Electric and

Columbia, a development now under construction on 1500 acres between Baltimore and Washington, D.C., are discussed at the winter meeting of Urban America, Inc., the organization formed by the merger of American Planning and Civic Association and the Action Council to Improve Our Neighborhoods.

70560 Urge wilderness status for Isle Royale Park. MICH. OUT-OF-DOORS. 18(3):4, Mar. 1967.

Conservation group representatives at a public hearing at Houghton recently advocated the preservation of the Isle Royale National Park as wilderness primarily. They went on record against intensive commercial development of the island park.

70561 Valyer, G. Lane County State Lake. KANS. FISH GAME, 23(4):5, Autumn 1966.

Most of the western localities of Kansas have poor impounded waters and few lakes for good fishing. Insufficient rain makes it impractical to construct a dam. A solution is to supply small fishing lakes, as the first one nearing completion in Lane County, with underground water through irrigation-type pumps.

70562 Vannier, M. METHODS AND MATERIALS IN RECREATION LEADERSHIP. REV. EDITION. Belmont, Calif., Wadsworth. 327p. 1966. Ref., illus., photos.

The need for a meaningful recreation program has increased with the realization that recreation consists

of more than filling a void in time. Consideration is given to the role recreation plays in our everyday life, suggested activities (active and passive) and their values, methods of teaching and programs for the young and aged as well as the sick and the healthy person. GV145 V3 1966

70563 Voigt, L. P. What's ahead for outdoor recreation programs? Financing matching funds. In North American Wildlife and Natural Resources Conference, 31st, Pittsburgh, Pa., 1966. TRANSACTIONS. Washington, Wildlife Management Institute, p.333-337, 1966.

This panelist criticizes Federal-State matching fund formulas because the wealthy States get the cream and the poorer States find it difficult to have enough State matching money for Federal aid. Since State matching funds are frequently in short supply several fund-raising possibilities are considered. Among these is a recommendation that a change in interpretation be made that would allow State operational cost to qualify as a matching contribution under the Land and Water Conservation Fund Act. In another recommendation, it is proposed that matching funds from the States be paid on the installment plan. Still another recommendation suggests junking, refurbishing or reorganizing other State programs and using the money thus saved for matching outdoor recreation programs.

70564 Wade, J. R. The politicians. Wayne Aspinall. TRAIL TIMBERL. (576):208 -210, Dec. 1966. Photo.

Comments on Representative Wayne Aspinall's non-controversial speech on the areas of agreement and accommodation which have existed between himself and his conservation critics at the third Annual Colorado Open Space Conference of Sept. 24-25, 1966.

70565 The Walcott Preserve, Connecticut. NATURE CONSERV. NEWS, 16(2):10, Summer 1966. Map, photo.

Discusses the addition on June 15, 1966 of 250 acres to the Frederic C. Walcott Preserve in Norfolk, Conn. A study, financed by the National Science Foundation, at the Preserve, is being conducted on the beaver and its effect on vegetation.

70566 Walker, L. C. Trees, for business or pleasure? AMER. FOR. 73(5):16-17, 58-60, May 1967. Photos.

The problems of multiple use in forested areas are discussed. Our society must decide how available land can be utilized for both business and pleasure. Three problem areas are analyzed: (1) Big Thicket in Texas where the debate involves the reassignment of commercial forest lands to a national or State park; (2) Redwoods in northern California where the argument is whether commercial forests should be converted to a national park or State parks should be placed in a national park; (3) North Cascades in Oregon where the debate hinges upon the administration of the land by the National Park Service or the Forest Service.

70567 Walsh, S. P. Checkpoints for downtown malls. URB. LAND, 25(9):8, Oct. 1966.

Twelve important questions are asked that are important to the success of downtown malls.

70568 Washington (State). North Cascades Study Committee. THE NORTH CASCADES REGION OF THE STATE OF WASHINGTON. Olympia. 6p. 1966. Map.

This report is the result of a special study by a committee of citizens of the State of Washington appointed by Governor Evans to advise him on future use and management of Federal lands in the North Cascades region of that State in response to proposals made by the Federal North Cascades Study Team. As alternatives to the Federal report, Governor Evans' committee makes the following recommendations: (1) Establishment by Congress of the North Cascades Recreation Area within which there be Multiple Purpose Recreation Areas, Wilderness Areas, and a wilderness-type National Park with defined boundaries. Multiple uses such as mining, grazing, power development and limited timber removal should be permitted and should be in keeping with the separate land classifications and compatible with the fundamental use of natural preservation and outdoor recreation. All developments in the area should enhance the natural beauty and scenic grandeur. (2) Establishment by Congress of a North Cascades Advisory Board to review and advise Federal agencies charged with administering plans. (3) The North Cascades National Park be

administered by the National Park Service and the remainder of the North Cascades National Recreation Area by the Forest Service.

70569 Weeks, M. C. Maintenance costs. Neighborhood vs. large parks. PARK MAINTEN. 20(1):24-27, Jan. 1967. Tables.

The cost of maintenance in public park administration is tabulated on cost analysis conclusions and demonstrates the fallacy of the common assumption that cost is determined by the size of the area. The characteristics of the large park vary considerably from the small area. These characteristics influence the level of maintenance to be accomplished.

70570 Weiner, R. One dam may be harder to fight than two. TRAIL TIMB. (577):4, Jan. 1967.

The pros and cons of one or two dams in the Grand Canyon are reviewed. Objections are not based upon aesthetics alone. Dams would serve no beneficial purpose and would not help solve the Basin's water problems.

70571 Wennergren, E. B., Roberts, N. K. Managing state lands: some legal-economic considerations. NATUR. RESOURC. J. 7(2):252-265, Apr. 1967.

This article describes a procedure for evaluating State land management alternatives based upon the net revenue produced over time by each alternative being analyzed. The application of the method to guide the selection of alternatives which will maximize the monetary potentials of State lands is included.

70572 Wernick, R. The battle of the redwoods. SAT. EVEN. POST, 240(8):90-95, Apr. 22, 1967. Map, photos.

Conservationists want to preserve more of the old growth timber by establishing a national park. Timber owners have objected to the various proposals now before the Congress. This article presents the issues that have emerged and describes briefly the proposals under consideration.

70573 Western Association of State Game and Fish Commissioners. PROCEEDINGS, 46TH ANNUAL CONFERENCE, 1966. Butte, Mont. 451p. 1966. Ref., tables.

Wildlife resource enhancement for recreation potential is an area for discussion among the Western Association of State Game and Fish Commissioners in cooperation with the Bureau of Sport Fisheries and Wildlife. Commissioners manage wildlife because of its importance in the environment and because of its impact on people. A crusade to develop an ecological conscience is being promoted along with programs and planning for recreational diversity. The philosophical approaches to multiple use and the conflicts apparent in the individual needs of users, some of the solutions to the use of land and the human-wildlife ecological conflict are discussed in papers in the recreation technical session. SK351 W527 1966

70574 Westrick, C. E. Wake up, America. FLA. NATUR. 40(2):52-53, 69, Apr. 1967.

A plea is made to save the Great Lakes areas and the Florida Everglades from environmental degradation by expressing our opinions to Federal and State representatives and Conservation Departments. Conditions which lead to natural resource destruction in Ohio, Michigan and Florida are described.

70575 White, G. F. The changing role of water in arid lands. ARIZ. REV. 16(3):1-8, Mar. 1967. Illus.

A noted geographer and former member of the President's Water Resources Policy Commission, discusses water use and allocation in the Riecker Memorial Lecture delivered at the University of Arizona. In analysing Arizona's water problems, the author discusses aspects of arid lands and their changes, pressures of urbanization, irrigation, water use, and potential supply, public attitudes, water budgeting, and new technology in water development.

70576 White, W. R. An analysis of the distribution of NSS members in the United States. NSS NEWS. 25(2): 26-27, 30, Feb. 1967. Map.

The article presents and analyzes a map which shows the distribution of members of the National Speleological Society in the United States.

70577 Wilderness Society. A new chance for the Upper Selway. LIV. WILDERN. 30(94):34-41, Autumn 1966. Map, photos.

A special study committee has been examining the current Forest Service management plan for the wild Upper

Selway River area in Idaho, known as the Magruder Corridor. The committee was appointed as a result of conservationists' protests against exclusion of the quarter-million-acre Upper Selway River-Bargamin Creek area from the Selway-Bitterroot Wilderness Area in 1963. Assurance is sought that there will be a systematic study of probable effects of proposed plans for logging, road construction, recreation facilities and other developments upon fishing, scenic, scientific and historical values, and wildlife problems. A brief history of the conservation battle is provided and the views of the Wilderness Society, citizen groups, other Federal agencies and industrial spokesmen are expressed.

70578 Will loyal sportsmen settle for leftovers? MICH. OUT-OF-DOORS, 18(3):4, Mar. 1967.

Michigan sportsmen express concern for the future of fish and game projects since emphasis on new recreation programs is focussed on recreational pastimes for the handicapped, mentally retarded and aged.

70579 Wit, J. A. School for clean fun. FISH. WORLD, 13(6):28-31, Nov.-Dec. 1966. Photos.

The Pasadena Department of Recreation has conducted successful classes on fishing instruction for ten years. Instructors are all volunteer members of the Pasadena Casting Club and some are also members of the Fishing Club of America. The author suggests that fisherman's instruction courses, which are enjoyed by young and old,

can be sponsored by sportsmen's clubs and service clubs.

70580 Wood, S. E., Lembke, D. The Federal threats to the California landscape. CRY CALIF. 2(2):4-66, Spring 1967. Illus.

A critical survey of the multitude of uncoordinated Federal programs which are adversely affecting California's land and landscape. The study concludes with specific recommendations for new Federal policy and administrative reforms.

70581 Woodward, H. R. The challenge ahead. COLO. OUTD. 16(1):1-5, Jan.-Feb. 1967. Illus., photo.

The Colorado Game, Fish and Parks Department's budget of \$14,873,799 for the fiscal year 1967-68 is analysed. Ten legislative proposals for consideration of the State legislature are listed.

70582 Yancey, R. K. It's marsh management time. LA. CONSERV. 19(3-4):18-20, Mar.-Apr. 1967. Photos.

The deterioration of the wetlands and estuarine areas of Louisiana is discussed. Marsh management, control of salt water intrusion into inland fresh waters, and other programs to preserve and develop these problem areas are described.

70583 Zisman, S. B. Urban open space. In North American Wildlife and Natural Resources Conference, 31st, Pittsburgh, Pa., 1966. TRANSACTIONS. Washington, Wildlife

Management Institute. p.427-433,
1966.

Open space--as a system, as a function, as a basic resource--is both a determinant and a control in urban development. Since America is becoming an urban nation, the need for the preservation of open space systems is more acute. The discussion includes an example of the North Expressway in San Antonio, which tragically dramatizes almost all the issues of the open space problem in the urban area.

SK351 N872 1966

RECREATION USER, DEMANDS AND VALUES

70584 Alexander, G.R., Shetter, D.S. Fishing and boating on portions of the Au Sable River in Michigan, 1960-63. AMER. FISHER. SOC. TRANS. 96(3):257-267, July 1967. Ref., maps, tables.

"Fishing and boating activity on 50.2 miles of the Au Sable River in Crawford and Otsego counties, Michigan, was measured by stratified random sampling during 1960-63. On the main stream and South Branch simultaneous use by anglers and canoeists is an important source of conflict and man-hours of canoeing far exceeded fishing activity. On the North Branch fishing constituted all but a minor fraction of the recreational activity. On the Main Au Sable and South Bend, angler use increased sharply after 6 P.M. when boater use was light; on the North Branch, angler activity was fairly uniform during the day and little boating was done. Anglers and boaters from the metropolitan areas of Southeastern Michigan constituted a significant fraction of the drainage users; 10% were from other States; 39% of the boaters were under 17; 3-7% of the anglers were under 17."

70585 Alexander, J.H. Sportsman's Hawaii. SPORTS AFIELD, 157(1): 43-45, 106, 108, 110, 112, 114, 116, Jan. 1967. Map, photos.

Part one of an article about the islands of Hawaii describes the outdoor sports for the tourist. Availability of good camping, hunting, fishing, snorkeling, and other water sports is emphasized.

70586 Allison, D. The schussing season. AMER. MOTOR. 35(8):8-10, Dec. 1966. Photos.

Snow skiing is a delightful sport which is enjoyed by many and can be learned by almost anybody. Equipment, instructions and accommodations involved in the sport are discussed.

70587 Amateur Trapshooting Association. Official ATA averages 1966. TRAP FIELD, 143(3a):3-388p. Mar. 1967. Maps.

The 1966 annual is a listing by states of "all records, singles, doubles and handicap averages reported and registered in 1966 with the Amateur Trapshooting Association, Vandalia, Ohio", a gun club directory, and gun club maps.

70588 American Camping Association. 1966 DIRECTORY OF ACCREDITED CAMPS FOR BOYS AND GIRLS. Martinsville, Ind., Amer. Camp. Ass. 281p. 1966.

This a guide for parents, students and campers in the selection of a camp. Students will find the book helpful for summer employment and local, State and national level government people will find it useful in studying recreational and educational facilities available in the U.S. Camps are listed by State, founding date, location, affiliation, price, program, size, and facilities. Camps with specialized purposes are listed separately. Also included is a list of camp directors or operators and their respective camps and location. SK601 A635 1966

70589 Anderson, W.V. Navigate by compass. BET. CAMP. 7(9):46-48, Nov.-Dec. 1966. Illus., photos.

The rewards of land navigation on back roads by compass are recounted.

70590 Arbib, R.S., Jr. Considering the Christmas count. AUDUBON FIELD NOTES, 21(1):39-42, Feb. 1967.

Bird counts are conducted in the United States and Canada annually. Data on weather effects, environmental and ecological influence on population and distribution of birds is gathered. The author questions the effectiveness of this annual event which now claims 13,000+ participants.

70591 Armitage, J. Safe climbing equipment: ropes and belays. SUMMIT, 12(7):24-27, Sept. 1966. Illus.

The Chairman of the Sierra Club Mountain Rescue explains the use of modern climbing equipment and techniques to result in fewer accidents and injuries. He recommends the choosing of certain kinds of mountain climbing equipment, particularly belays and ropes.

70592 Armitage, J. What is a "safe" piton? SUMMIT, 12(6):24-27, 32, July-Aug. 1966. Illus.

For guidance on mountain climbing equipment, the present article describes results of tests made on climbing equipment, summarizes the UIAA standards which have been

established, and discusses alpine equipment problems as they concern safety.

70593 Baillargeon, J.H. 43 seconds at Van Hoevenberg. CONSERVATIONIST, 21(3):18-20, Dec.-Jan. 1966-67.

An expert analyzes bobsleds, the run at Lake Placid, and American chances abroad at the 1968 Olympics.

70594 Bainbridge, C.G. HOLIDAY CARAVANNING. Newton Abbot, Devon, David Charles. 176p. 1966. Ref., illus., photos., tables.

Various aspects of caravanning are described including buying, hiring and equipping a caravan; mobile caravanning; and the functional aspects of caravanning. British law for trailers and caravan or trailer sites in London and Paris are given. TL297 B16

70595 Bair, T.E. California's fairs are for everyone. AMUSE. BUS. 79(11):8-9, Mar. 25, 1967. Photo., tables.

The growth patterns of fairs in California, relationship to State assistance, the relationship of expenditures and revenues and the increase in attendance, number of fair entries, and exhibitors, are traced from 1955-65.

70596 Bazillian, B. Selecting archery equipment. TAM ARCH. WORLD, 15(11):62, 64, Dec. 1966.

The purchaser of archery equipment should consider the type of archery

in which he is interested as well as the cost. Quality is important in developing greater facility in a skill which should not be hampered by equipment failures.

70597 Beach, B.S. What's ahead for camping in 1967? CAMP. MAG. 39(1): 10-13, Jan. 1967. Map, illus., photos.

The results of the Camping Outlook Survey for 1967 are delineated to uncover trends in four areas of camp management - Campers, Counselors, Costs, and Programs.

70598 Beardsley, W. COST IMPLICATIONS OF CAMPER AND CAMPGROUND CHARACTERISTICS IN CENTRAL COLORADO. Fort Collins, Colo., Rocky Mountain Forest and Range Experiment Station, 7p. 1967. Illus., photos. (U.S. Forest Service Research Note RM-86).

Large campgrounds of 20 or more units are probably less expensive to operate and maintain - but not necessarily to construct - than smaller ones. Occupancy is determined by physical setting in locations near recreationally usable water surface, not size or construction investment. Travel-trailers, tent-trailers, or pickup-campers were used by 58 percent of the families.

70599 Bell, B. Cold storage trout. IDAHO WILDL. REV. 19(4): 3-4, Jan.-Feb. 1967. Photos.

Ice fishing is rapidly becoming a popular and profitable sport in

Idaho's Magic Valley Region as well as in other portions of the state. Excellent trout fishing is available. Information on the catch, types of gear and bait and types of clothing needed are discussed.

70600 Bell, G.T. Furniture and fittings for parks. PARK ADMIN. 31(10):40, 41, 45, Oct. 1966. Photos.

Describes the seating, lighting, litter baskets, drinking fountains, and racks for cycles that are functional, sturdy, and eye-appealing in public parks. A sufficient quantity of well designed outdoor furniture enhances use of parks.

70601 Bender, B. Try this new way north. Tips for trailering on the Atlantic Coast. BET. CAMP. 7(7): 35-36, July-Aug. 1966. Map, photo.

Frequently travel trailers are restricted on many turnpikes and tunnels for safety or weather reasons. The author describes a route that starts from Florida and travels north along the Atlantic seaboard. Information is given on costs and accommodations.

70602 Bender, R. Sportin' fun on Lakes Mead and Mohave. ARIZ. WILDL. SPORTS. 37(12):c-p, (14p.) Dec. 1966. Maps, photos.

Maps and photographs are supplied in a field guide on Lake Mead National Recreation Area and Lake Mohave. Basic information is given on camping, exploring, rock hunting, water sports, access points, fees, motels, trailer parks and other facilities and activities.

70603 A blizzard's best friend.
AMAT. ATHL. 37(12):24-25, Dec. 1966.
Photos.

The AAU Luge Committee scheduled the first luge clinic in the western hemisphere, Dec. 26-Jan. 8 at Missoula, Montana. On Jan. 6-7, contestants compete in the "North American International Luge Tourney." Data on Olympic trial events and the National AAU Junior and Senior Championships are given.

70604 Boating in Arizona ... ARIZ. WILDL. SPORTS. 38(3):13-20, Mar. 1967. Illus., photos., table.

An account is given of the boating, fishing, camping, and related activities of the lakes of Arizona. Information is supplied on equipment needed and requirements for safer boating.

70605 Bonneville, J.F. Desert dwellers afloat. MOT. BOAT. 118(6):26-28, Dec. 1966. Photos.

Arizona has over 40 fishing lakes as well as 28 lakes where motorboats are welcome. The dry State of Arizona has more boats per capita than any other State in the country.

70606 Boswell, C. Twelfth annual Death Valley tour. AMER. MOTORCYCL. 21(1):16-19, Jan. 1967. Photos.

The Death Valley Tour has become increasingly successful since its inception in 1954. By 1966 it has become the largest motorcycle ride event. Spectators come in trucks, campers and trailers to enjoy the Tour, the sightseeing, and the

historical attractions of the Death Valley National Monument area.

70607 Bounous, J. Master of powder. SKI. 31(5):63-67, Dec. 10, 1966. Illus., photos.

The latest skiing technique for light deep snow is explained narratively with photographic illustrations.

70608 Boyer, J. World's fastest-growing ski industry. N. MEX. MAG. 45(1):3-7, 36, Jan. 1967. Photos.

New Mexico has the fastest growing ski industry in the United States, perhaps in the world. Ten years ago only one ski area in New Mexico, the Santa Fe Ski Basin, even had a double chair lift. Today, out-of-state skiers contribute more than a million dollars every season into the State's economy. Business has increased an average of 30 % annually during the past four years. This article contains information about each of the outstanding ski areas. Angel Fire Ski Basin is described more fully than the others because it is the newest one in the State.

70609 Boyle, R.H. Fight on, old Sing Sing U. SPORTS ILLUS. 26(4): 29-32, Jan. 23, 1967. Illus.

Sing Sing in Ossining, N.Y. and numerous other prisons in the U.S. have an active sports program. The value of hobbies and team sports to occupy the leisure time of prisoners and rehabilitate them is discussed.

70610 Brennan, B. Parker - power boat racing capital of the Southwest! ARIZ. WILDL. SPORTS. 38(3):36-39, Mar. 1967. Map, photos.

Boat racing and water sports in Parker, Arizona are discussed. The facilities at Bluewater Marine Park and the Colorado River Indian Reservation are described.

70611 Brightbill, C.K. EDUCATING FOR LEISURE-CENTERED LIVING. Harrisburg, Pa., Stackpole. 232p. 1966. Ref., illus.

The employed and the unemployed, the literate and the illiterate, the educated and the uneducated, cybernation and the population explosion and other facets and problems of modern society are analyzed in their relationship to leisure time. A changing society is demanding a more creative, adventurous, and serviceable expression for leisure living. Recommendations are made for the role of government at all levels in cooperation with private citizens to regenerate the natural environment, improve the man-made environment and provide the proper setting for a quality experience in leisure time. BJ1498 B74

70612 Burrier, T. Bowhunting the wide open spaces. TAM ARCH. WORLD, 15(11):28-31, Dec. 1966. Photos.

Discusses equipment, licenses and other information pertinent to bow hunting. Improved roadways, and the "home on wheels" have made inaccessible places easier to reach.

70613 Burton, T.L. Outdoor recreation in America, Sweden and Britain. TOWN COUNT. PLAN. 34(10): 456-461, Oct. 1966.

The contents of ORRRC, Sweden CRROR and similar British studies illustrate some significant similarities and differences in the pattern of outdoor recreational development among the three countries. A number of these trends is discussed.

70614 Cannon, R. HOW TO FISH THE PACIFIC COAST. A MANUAL FOR SALT WATER FISHERMEN. Menlo Park, Calif., Lane. 160p. 1967. Illus., photos.

A guide to fishing the West Coast for the serious fisherman, the manual gives illustrated fish-by-fish instructions. Included are a glossary of terms, an index of common names of fish, and an index of scientific names. This manual's value lies in supplying answers to the perplexing questions that beset the beginning salt-water angler; in clarifying the confusion of the common names of fish; in advancing the art of ocean angling; in stimulating general interest in the conservation of our mighty ocean resources; in helping to equip the fisherman by suggestions about the most effective size and type of tackle, kinds of bait, and methods of hooking; and in giving information about the geographical location of the various species and the time to look for them. SH457 C315 1967

70615 Carlson, C.W. Hawk watching on the ridges. ATLANT. NATUR. 21(4):161-168, Oct.-Dec. 1966. Ref., map, illus.

A special kind of bird watching--observing autumn migrations of hawks along our mountain ridges--is described in this article. Such places as Hawk Mountain, Elk Ridge and Waggoners Gap in Pennsylvania; Kittatinny ridge in Pa., Md., and Va., South Mountain, Fox Gap, and Cramptons Gap in Maryland; Ashbys Gap, Skyline Drive, and the Blue Ridge in Virginia are particularly good places for hawk watching.

70616 Carson, G. Instinct shooting. A new sport. DUDE RANCH. 35(4):16-17, Fall 1966. Photos.

"Instinct shooting is designed for the beginner: for the shooter who can't spend hours and money at a gun club but who likes to knock down a good number of targets when he goes shooting."

70617 Case, M. RECREATION FOR BLIND ADULTS. ORGANIZED PROGRAMS IN SPECIALIZED SETTINGS. Springfield, Ill., Thomas. 208p. 1966. Ref., illus.

The book provides information on the prevalence of blindness; its impact and historical background of treatment for the visually handicapped. The training of staff and administration of programs in major specialized recreation centers in New York City are described. HVL765 C35

70618 Checchi and Company. THE FUTURE OF TOURISM AND RECREATION IN SOUTHERN ILLINOIS. Springfield, Illinois Dept. of Business and Economic Development. 360p. 1966. Maps, illus., tables.

This technical assistance study was prepared to show how tourism and recreation might be developed in Southern Illinois, resulting benefits, costs, and means of financing and promoting development. To differentiate between tourism and recreation activity and thus avoid duplication in statistical data, definitions were established as follows: "recreationist - anyone (including all campers) who engages in outdoor recreation in public recreation areas, but who does not stay overnight in commercial accommodations; tourist - anyone who stays overnight in commercial accommodations."

The recreation land in the study area included 32 recreation areas operated by the Federal government; 25 recreation areas operated by the State of Illinois; 5 private shooting preserves; 28 private or municipal camping areas (in addition to State and Federal areas); 19 river access sites on the Mississippi, Ohio, and Wabash Rivers; and over 100 other scenic and historic points of interest.

70619 Clawson, M., Knetsch, J.L. ECONOMICS OF OUTDOOR RECREATION. Baltimore, Johns Hopkins Press. 328p. 1966. Ref., tables.

This book, written by economists on the staff of Resources for the Future, is directed primarily at park and recreation workers and students in the field of recreation. An analysis is made of leisure and the role and character of outdoor recreation experience. In treating the demands for outdoor recreation some elements of and nature of recreation demand are discussed as well as the behavior of some casual factors

in demand and alternate methods of estimating future use. The use of resources for recreation, the preservation of quality and the existing recreation areas and their uses are major areas of discussion. Economic problems considered involve: the value of land and water resources when used for recreation; economic impact on local areas and investment considerations in providing facilities and pricing and paying for them; research; and major issues of public policy. GV182.2 C55

70620 Coaches, athletic directors name personal sports preferences. SPORTSCOPE, 12(3):2, June 30, 1967. Table.

In a recent survey by Scholastic Coach Magazine, coaches revealed their own sports participation. This article gives the survey results by activity of the percentage of coaches participating. Golf garnered the highest number of participants, with swimming second, and fishing ranked third.

70621 Coleman, S. A businessman looks at the "business of pleasure." AMER. FOR. 73(1):18-20, 56, Jan. 1967. Photos.

A manufacturer of camping equipment gives his viewpoint of the future of all businesses serving recreational markets. Factors which make him optimistic about it are: population growth; increased per capita income; the assumption that available leisure time has increased; increased mobility; the shift from rural to urban living; increases in the proportion of younger people in the

population; and in the older retired brackets with higher incomes. Since outdoor recreation is of great benefit to physical, mental, and moral health, the need for maintaining a strong, responsible citizenry and the importance of outdoor education in the schools are stressed.

70622 Collin, R.L. Winter camping in the mountains. ADIRONDAC, 31(1): 10-14, Jan.-Feb. 1967. Photo.

The advantages of tent camping vs. cabin, or lean-to and on the ground camping in sleeping bags are considered. A description of an easily constructed tent for winter camping is given.

70623 Collins, J. The cold, cold world of Wisconsin's hardwater sailors. WIS. TALES TRAILS, 7(4): 2-7, 25, Winter 1966. Photos.

Iceboating on Wisconsin's lakes is a sport for the skillful and the rugged. Here is described the whole environment of the iceboater.

70624 Colton, S., Colton, J. Torrey Pines at twenty-one. SOARING, 31(4): 10-13, Apr. 1967. Photos.

A reporter describes the performances of most successful participants at the 21st annual Pacific Mid-Winter Soaring Championships near San Diego, Calif. Over 10,000 spectators were present at the two day meet held Feb. 25-26, 1967.

70625 Comeau, G.F., Calhoun, F.R.J.
The skin diver dropout. SKIN DIV.
15(9):2, Sept. 1966.

Skin diving as a sport has not increased appreciably over the last year. Reasons cited for the great "dropout" rate are lack of clubs to join, scarcity of divers willing to dive, and paucity of good diving sites.

70626 Conti, R. No-snow skiing pays extra dividends. RESORT MANAGE. 20(10):12-14, Oct. 1966. Illus., photos.

Plastic ski mats make off-season ski events possible. This article tells about their construction, use, and advantages.

70627 Curtis, H. History of the crossbow. TAM ARCH. WORLD, 16(2): 30-35, Feb. 1967. Illus., photos.

This article presents the histories of the longbow and the crossbow, their many variations, such as the ribeaudequin and the slurbow.

70628 Czura, P. Snowbuggy boom. WEST. OUTD. 13(12):20-22, Dec. 1966. Photos.

Snowmobiling or snow-cruising has become such a popular sport that many states are planning to build snowmobile trails to enable outdoor enthusiasts to penetrate previously inaccessible areas to enjoy ice-fishing, hunting, ski-joring, camping, sightseeing and photography. The Forest Service in collaboration with two northern Wisconsin towns has developed the

first planned snowmobile trail in the United States. The number of snowmobiles in use has grown 10,000 % within the last 10 years, and the owners have recently formed the Western Snowmobile Association.

70629 Davidson, P., Adams, F.G., Seneca, J. The social value of water recreational facilities resulting from an improvement in water quality: The Delaware estuary. In Kneese, A. V., Smith, S.C., eds. WATER RESEARCH. Baltimore, John Hopkins Press, p.175-211, 1966. Ref., illus., tables.

This paper considers the reasons for market failure in water recreational facilities and concludes that the water recreation potential of a river estuary cannot be left to the private sector. "An analytical approach to compare values and costs of water recreational facilities is suggested. Since the study is exploratory," the empirical conclusions must be considered tentative. Projections of demand for certain water sports in the Delaware River estuary are made for the next three decades (1965-1990). HD1694 A1K6

70630 Delaney, J. Anyone for hounding rocks? DESERT, 30(3):28, 37, Mar. 1967. Illus.

Ventures into the realm of rocks is a popular activity in and around the Coachella Valley of Southern California. Some interesting expeditions are described. The satisfaction in displaying a collection of stones and artifacts to visitors is extolled.

70631 DeLong, F. What bicycle for touring? AMER. CYCL. 6(3):12-13, May 1967. Photos.

The requirements of a good touring cycle are specified in this article.

70632 Dey, J.C., Jr. 20 years either side of now. USGA GOLF J. 19(8):12-15, Feb. 1967. Illus.

In an address at the annual meeting of the Maryland State Golf Association, Mr. Dey describes golfing in 1947 and projects the game as it will be played in 1987. The rules, golf participants, equipment, and the growth of public courses are discussed.

70633 Dickey, C. Don't hibernate--try iceboating. LAKE. BOAT. 21(10):14-15, Nov.-Dec. 1966. Photo.

Iceboat racing is described and recommended as an exhilarating winter sport, a fine change of pace for boaters.

70634 Disneyland crowd figure to hit 6.5 mil. for year. AMUSE. BUS. 78(51):18, Dec. 24, 1966.

Many added attractions and adventures in space, science, the world of the future, entertainment and accommodations, have increased the attendance at Disneyland in Anaheim, California.

70635 Dromiack, C. Johnsville: century-old ski town. NEV. HIGHW. PARKS, 27(1):22-25, Spring 1967. Photos.

The first organized ski races in the Western Hemisphere were held in 1861 in Johnsville, Calif., only an hour's drive from Reno, Nevada. The article delineates what happened then and narrates stories about John A. (Snowshoe) Thompson who is credited by historians as the man who introduced skiing to Nevada and California.

70636 Drowning the leading cause of recreation deaths in '65. RECREAT. MANAGE. 10(1):28, Jan.-Feb. 1967.

The National Safety Council reported that drowning was responsible for the most lives lost in 1965 of any cause of death in the public category. Most sports and recreational deaths are counted in this category. Drowning accounted for approximately 5400 fatalities. These occurred while playing, swimming, boating, or just falling into the water.

70637 Du Buisson, C. Fight for survival. FLA. WILDL. 20(8):14, 15, Jan. 1967.

In outdoor recreation planning a high interdependence exists among the various outdoor activities. The problem lies in placing them in their proper perspective. Sportsmen are prepared to share the outdoors with others, but to them multiple use is a term with a noble objective and hidden pitfalls. The importance of hunting and fishing as outdoor recreation is stressed.

70638 Educational programs attract 125,000. WAT. LAND LIFE, 8(4): 12-13, 17, Dec. 1966. Photos.

Western Pennsylvania Conservancy report increased attendance at nature reserves during 1966. Expanded educational programs--including evening lectures and nature study talks--and new facilities are credited with helping to bring about this dramatic attendance increase. Visitation statistics are provided for each nature reserve: Wildflower Reserve, Jennings Nature Reserve, Ferncliff Nature Reserve, Fallingwater, and Bear Run Nature Reserve which includes the Brooks Memorial Bird Sanctuary.

70639 Edwards, J.G. A CLIMBER'S GUIDE TO GLACIER NATIONAL PARK. Revised ed. San Francisco, Sierra Club. 155p. 1966. Ref., map, photos.

This guide to Glacier National Park provides a quick review of the literature and history of climbing, safety precautions, classification of climbs and registration of climbers. Detailed descriptions are given for routes on the peaks. F737 G5E3 1966

70640 Ell, L. Foot trails to adventure. NEBRASKALAND, 44(8): 45-47, Aug. 1966. Photos.

Nebraska has a variety of hiking trails to satisfy the demands of a short or a long hike. The article discusses some of the trails, the equipment necessary, and the recreational benefits of hiking.

70641 Fagans, A.J. An analysis of resort advertising in leading magazines during 1966. RESORT MANAGE. 21(3):20, 22-23, Mar. 1967. Illus.

Illustrated by numerous charts and tables, here is information about travel and resort area promotion. Trends by advertising media groups are reported specifically.

70642 Fagans, A.J. An analysis of the resort advertising placed in leading newspapers during 1966. RESORT MANAGE. 21(4):24, 26, 28, 30, Apr. 1967. Illus.

A continued increase in promotional activity is revealed by this analysis of 1966 resort advertising in newspapers and magazines. Precise amounts are reported; comparisons are made with 1965 expenditures as well. An analysis by rank includes both American and Canadian newspapers. Trends are explained and some general observations are made.

70643 Fine, I.V. WISCONSIN AND THE VACATIONER. Madison, Wisconsin State Dept. of Resource Development. 25p. 1966. Tables.

The results of mail surveys to determine information on vacationing and vacationers in Wisconsin are described. Origin (resident or non-resident), occupation, age, schooling, family income, activities engaged in, vacation party size, region of the State visited, changes in vacation patterns, what vacationers like about Wisconsin, and recommendations for park improvements are presented.

70644 Finley, C. The meek wild growing plants. AMER. WHITE WAT. 12(3):17, Winter 1966-67.

If a canoeing enthusiast wonders about using wild flowers, tree blossoms, wayside plants, and other flora often seen along river banks for food, this article gives such information.

70645 Fitness program hale and hearty. AMAT. ATHL. 37(12):12-13, Dec. 1966. Photo.

As a result of the AAU physical fitness program, sponsored by the Quaker Oats Company of Chicago more than 513,000 boys and girls qualified for physical fitness achievement certificates. Schools, States, and municipal playgrounds with outstanding records for physical fitness efforts were cited.

70646 Forrest, C. Yosemite's back country. SUMMIT, 12(6):14-19, July-Aug. 1966. Maps, photos.

This article gives some backpacking advice with an illustrated description of a superb backpacking region, the high alpine country, north and south of Tuolumne Meadows in Yosemite National Park.

70647 Fortier, E. and others. The iron dog. ALASKA SPORTS. 33(2): 6-9, 46, 48, Feb. 1967. Photos.

Snowmobiles, which comprise 75% of all transportation in Alaskan villages, are becoming the major means of transportation for hunters and family use. Snowmobile clubs sponsor rallies, competitive events and outings. Trails are being developed, and legislation on their licensing and use is imminent.

70648 Foster, G. The good "new days". NEBRASKALAND, 45(1):84-87, Jan. 1967. Photos.

Fishing in Nebraska offers greater opportunities for success than ever before because of the creation of many new ponds, lakes, and reservoirs, and the present scientific fish-management program.

70649 Francis, S.F. If all you want is a penguin's egg ... LIV. WILDERN. 30(93):20-21, Summer 1966. Photo.

At the National Youth Conference for Conservation and Natural Beauty in Washington, D.C., on June 27, 1966, the author encourages the exploration and enjoyment of the out-of-doors. The Wilderness Act of 1964 and its wilderness preservation is discussed.

70650 Freel, T. Ski roundup. MOT. NEWS, 49(7):17, 32, Jan. 1967. Photos.

New and improved artificial snow machines makes skiing possible almost all year throughout Michigan. Equipment is very costly, but it is warranted by the expansion of ski areas. Ski areas, ski resorts, ski lodges and ski facilities are discussed.

70651 Garden lighting that's simple and safe. SUNSET, 137(1):54-57, 79-80, 83, 84, July 1966. Photos.

Low voltage lighting is safe and easily installed. Low-key effects may be obtained and are superior to the flood-light techniques which produce glare. Experimentation is

suggested before the final installation. The basic rules for installation are given.

70652 George, C.M. The recreational use of public lands question. EARTH SCIENCE. 20(3):115-117, May-June 1967.

Reviews the history and current uses of public lands. Because many of the best rock collecting areas are located on public lands, especially in the West, the author requests that all rockhounds assist in providing data on the extent of use of mineral sites. A form with mailing instructions is attached on which to report field trips on public lands.

70653 Gilbert, E. Skylift babysitter. MOT. NEWS, 49(7):19, 33, Jan. 1967. Photos.

Snow skiing has become a popular family sport, especially among women. The reasons why mature women participate in the sport are given; facts on facilities, accommodations and rates are also included.

70654 Giunta, B.C. Let's go winter camping. COLO. OUTD. 16(1):8-10, Jan.-Feb. 1967. Illus.

A knowledge of cold weather is a must if one wishes to take outdoor photos of wildlife or go hunting in winter. Clothing for the cold and winter tents or lean-to, and reflector type of fire are recommended.

70655 Glidden, G.M. A mask aids pool safety. SWIM. POOL AGE, 41(1):100, 103, Jan. 1967.

The proper methods of using and handling gas masks and the hazards and training involved are discussed.

70656 Graham, O.D. Tobogganing in your shirtsleeves. PARKS RECREAT. 2(5):23, 60, May 1967. Photos.

In the recent installation of the world's first refrigerated toboggan chutes, the Cleveland Metropolitan Park District has put into operation a pair at the Rocky River Reservation. This article describes the design, operation, funding and some adjacent facilities which add much to the enjoyment of summer toboggan rides.

70657 Gray, D.C. Goals for meaningful camping. CAMP. MAG. 39(2):12-13, Feb. 1967. Photo.

A worthy camping experience offers anticipation, participation, and reflection. This article presents six elements that should be included as primary objectives in camp planning. With camp counselors who are nature conscious, child conscious, and camp wise, these goals should be realized. The result will be happy and worthwhile camping.

70658 Green, B.L., Wadsworth, H.A. BOATERS, FISHERMEN AND HUNTERS. Lafayette, Purdue University. 104p. 1966. Ref., maps, illus., tables.

The problem examined is to determine the extent that participation in

boating, fishing, and hunting is affected by selected independent variables. Results from mailed questionnaires sent to participants in outdoor recreation activities were used to obtain data which were analyzed by multiple regression techniques. Survey findings, implications and recommendations are explained further by tables, charts, maps, and statistical illustrations.

70659 Green, B.L., Wadsworth, H.A. CAMPERS. Lafayette, Purdue University. 23p. 1966. Ref., maps, illus., photos., tables. (Purdue Univ. Res. Bull. No. 823).

Results from a survey of camping association members in Indiana indicate that participation in camping is significantly affected by occupation, age, vacation, education, and type of camping outfit. Other aspects of the problem examined in this paper included: the most preferred product-mix (other recreational activities), seasonality, sources of information used in planning trips to recreation sites, and major desirable and undesirable aspects of the recreation experience especially at sites. Findings and recommendations are explained by tables, charts, maps, and statistical illustrations as well as by narration.

70660 Gregg, J.R. You can't beat canoe camping. FIELD STREAM. 71 (11):46-47, 78, 98, 100, 102, 104, Mar. 1967. Photos.

Because of the downright serenity of canoe travel, many think that the best way to go camping is in a

canoe. Peace, solitude, exercise, fresh air, and maximum exposure to the sight and feel of nature unimproved are assets listed as accruing from canoe camping. This article gives advice about choosing the canoe, equipment to carry along, safety precautions, and favorite canoe trails.

70661 Gunderson, C.B. Grandiose fox hunts. S. D. CONSERV. DIG. 34 (1):20-21, Jan.-Feb. 1967. Photos.

Mass fox hunts are becoming a popular winter sport in South Dakota. A description of this type of hunt is given.

70662 Harbour, D. MODERN ABC'S OF BIRD HUNTING. Harrisburg, Pa., Stackpole. 191p. 1966. Illus., tables.

The book describes hunting equipment, techniques, areas, hunting tips, and gamebird and waterfowl identification guides for birds in the U.S. and Canada. Also included are hunt planning charts on: (1) gamebird resources of the 50 States; (2) gamebird hunting accessible to major cities; (3) gamebird resources of the national forests; (4) gamebird resources of the national grasslands; (5) location of national waterfowl refuges; (6) principal public hunting areas of the United States; (7) gamebird resources of the Canadian provinces. SK313 H3

70663 Harrington, D. Clubs develop active season for riders and spectators. AMER. MOTORCYCL. 20(11): 20-21, Nov. 1966. Photos.

The Sioux Falls Club, Sioux Falls, S.D. area has been sponsoring stock car racing which has proved to be enjoyable for both riders and spectators as well as financially profitable. Coordination of racing schedules with the track in Lincoln, Neb. is described.

70664 Hatfield, A.B. Enhancing creativity in camping. CAMP. MAG. 39(2):14-15, Feb. 1967. Photo.

Camp leaders need to understand the nature of creativity and how to preserve and enhance the faint glimmerings present in almost all children. Here are some ways that camping can encourage creative growth and especially its mission to provide the setting that encourages aesthetic response from sensitive children.

70665 Haun, P. The place for recreation in mental health. Part II. PARKS RECREAT. 1(12):974-975, 986-987, Dec. 1966.

A doctor explains the place of recreation in the re-establishment of that vital mesh of emotional relationships which gave content to the lives of our ancestors and which, by its absence, leaves all too many people rootless and adrift.

70666 Havenner, J.E. The user's view of highways. Address.. Western Association of State Highway Officials, Sun Valley, Idaho, Sept. 6, 1966. AMER. HIGHW. 46(1): 21-23, Jan. 1967.

Current trends and the changing profile of highway users are discussed

by the Executive Vice President of the Automobile Club of Southern California. Recreational demands make adequate highways a high priority public service. Conflicts in values between the recreation users and the conservationists, who oppose state and national highway programs to provide access to wilderness areas are presented.

70667 Hedberg, A.G. The psychologist's role in camping. CAMP. MAG. 39(1):18-20, Jan. 1967.

Here are ways in which a professionally trained psychologist - qualified in the areas of child development, learning, and personal adjustment - can help the administrative staff, counselors, and campers toward the goal of the development of emotional and social maturity in each child.

70668 Herrington, R.B., U.S. Economic Development Administration. SKIING TRENDS AND OPPORTUNITIES IN THE WESTERN STATES. Ogden, Utah, Intermountain Forest and Range Experiment Station. 90p. 1967. Map, photos., tables. (U.S. Forest Service Res. Paper INT-34).

This report is a result of a technical assistance study on the ski industry and skiers in the Western States since 1955. Estimates of future attendance for 1976 are projected. An analysis is made of skier's age, sex, residence, frequency of participation, skier expenditures, incomes, ski areas, facilities, and potential sites for new ski areas.

70669 Hole, W.V. CHILDREN'S PLAY ON HOUSING ESTATES. London, H. M. Stat. Off. 42p. 1966. Ref., illus., photos., tables. (Gt. Brit. Nat. Build. Stud. Res. Pap. No. 39).

The study considers one aspect of the problem of space allocation in high density developments for children's play. Some activities and play preferences of children have been examined. HQ782 H6

70670 How the Grand Teton Lodge justifies its advertising dollar. RESORT MANAGE. 21(2):8-9, Feb. 1967. Illus.

Here one resort within a national park explains how it boosted the yield of its advertising budget.

70671 Hull, C. Boat to better camping. WEST. OUTD. 13(6):34-35, 57, June 1966. Photos.

A small craft with light oars and small outboard motor is adequate even for long cruise-camping trips. Camping either on a boat or ashore is very enjoyable and can occur in places that would be inaccessible by automobile. The equipment and supplies needed are discussed.

70672 Humphrey, H.H. Recreation's vital role. PARKS RECREAT. 2(6): 13, June 1967. Photo.

In a guest editorial Vice President Humphrey, Chairman of the President's new Council on Youth Opportunity, emphasizes the major role of recreation in opening gateways to happier, more useful lives for young people.

70673 Irving, L. Reading a topographic map. CONSERVATIONIST, 21 (4):47-48, Feb.-Mar. 1967. Map.

Described are features of a topographic map and how to use one to gauge distance and time on a cross country hike.

70674 Jett, S.C. TOURISM IN THE NAVAJO COUNTRY: RESOURCES AND PLANNING. Window Rock, Ariz., Navajo Tribe. 184p. 1967. Ref., maps, tables.

Using three information sources (personal observations, interviews and published works), the author reviews the tourist potential of the Navajo country. The present trends and specific needs of tourists are described. An analysis of the social and political conditions which have a bearing on the chances for success of a planned program of tourist facility development is included. Detailed information on scenic areas and prehistoric sites, including development proposals, is presented.

70675 Judge, M. Regional promotion to benefit resorts. RESORT MANAGE. 21(4):10-11, Apr. 1967. Photos.

Travel directors representing 11 Southern States at the Southern Travel Directors Council last month voted a \$165,000 budget to promote the South as a vacation region.

70676 Judge M. Southern states unify to boost tourism. RESORT MANAGE. 21(1):10-12, Jan. 1967. Illus., photos.

This article tells how the travel directors in the eleven Southern States have been promoting Southern vacations; about their continuing efforts and plans to lure vacationers southward.

70677 Kamman, A.B. Some fundamentals of trail energy. SUMMIT, 13 (2):26-27, Mar. 1967.

Calorie producing foods for the mountain climber are described.

70678 Kane, M. The true football gets its big chance. SPORTS ILLUS. 26(13):22-24, 27-28, Mar. 27, 1967. Photo.

The future outlook for soccer in the United States as a professional ball game is discussed.

70679 Karnig, J.J. RECREATION USE WITHIN THE HARVARD BLACK ROCK FOREST. Cornwall, N. Y., Harvard Black Rock Forest. 11p. 1966. Ref., tables. (Black Rock Forest Papers, No. 26).

The Black Rock Forest, one of two forest research facilities owned and operated by Harvard University consists of over 3,600 acres of land in one parcel and is situated atop the Hudson Highlands in New York State. Seven ponds located in the forest provide limited recreation for local residents. Hunting and fishing rights within the Forest have been granted primarily to a large local sportsman's club. Recreation is also enjoyed by special permit holders, organized hikers from metropolitan New York, and local visitors. Hunting and

hiking appear to be almost equally popular among the reported activities of recreationists. The intensity of public use averages 60,000 visitor days per year in spite of no access by motor car during hunting season and lack of facilities for recreationists. Estimated visitor day use for fishing, small game and deer hunting, hiking and patrolling is provided in tables.

70680 Kaufman, M.T. A fly-and-camp holiday on "Sinjin". CAMP. GUIDE, 47:15-17, 44-46, Jan. 1967.

Camping on St. John Island of the Virgin Islands ("Sinjin") is described. Some flora and wildlife are mentioned. Dangers encountered in poisonous plants and in the water are reported. An underwater snorkeling trail of Virgin Islands National Park is described. The costs of the trip are provided.

70681 Knetsch, J.L. Economic aspects of environmental pollution. J. FARM ECON. 48(5):1256-63, Dec. 1966. Ref.

The productivity of the economy, technological advances, ecological values, supply and demand, each affect the quality and character of the environment. An analysis is given of these relationships to the environmental quality.

70682 Knetsch, J.L. Forest recreation. A case of non-market resource use. J. FOREST, 65(2):102-106, Feb. 1967. Ref.

Demand for recreation is increasing. The nature of the economic values of

recreation and the problems of projecting recreation use are analyzed. The author concludes that people have no given demand or set of requirements for certain types of outdoor recreation. In planning for future recreation, the matter of substitution of various kinds of recreation with respect to increments in different facilities is going to call for more attention.

70683 Koontz, D.R. Ice skating Whitemarsh style. PARKS RECREAT. 2(1):27, Jan. 1967. Photo.

In eastern Pennsylvania winter temperatures do not remain cold enough, long enough, to provide for much ice skating on ponds or streams. The Whitemarsh Township Park and Recreation Department in southeastern Pennsylvania has discovered a method of providing ice skating over the winter months at a moderate cost to the department. This method and its costs are explained and itemized.

70684 Kouns, W.C. Playground equipment. PARKS RECREAT. 2(5):20, May 1967. Photo.

The first playground constructed by the Franklin Park District has installed the playscape - its first Midwest appearance. Playscapes are designed around the concept that the child moves, not the equipment. Safety is one of the most noteworthy features, but other advantages of the playscape are noted.

70685 Krug, A.S. The forgotten second amendment. Part I of II. GUNS AMMO. 11(1):20-21, Jan. 1967. Illus.

Here are the current constitutional and statutory aspects of the "Right to Keep and Bear Arms" as presented at the 1966 Statewide In-Service Training Conference of the Pennsylvania Game Commission. This article discusses the attempts to "degrade" the Second Amendment to the Constitution of the United States relative to "the Right of the People to Keep and Bear Arms." It presents information on relevant court cases and congressional committee reports.

70686 Krug, A.S. The forgotten second amendment. Part II of II. GUNS AMMO. 11(2):20-21, 72-73, Feb. 1967. Ref., illus.

This article summarizes the current constitutional and statutory regulations for each of 35 States relative to "the Right of the People to Keep and Bear Arms."

70687 Kuhlhoff, P. Claybird shooting: A spectator sport? SPORTS AGE, 30(2):43-45, Feb. 1967. Photos.

The National Claybird Tournament was completed on Dec. 11, 1967, at River Ranch Acres near Wales, Florida. The tournament is a result of a concentrated effort to establish nationwide shooting facilities. Shooting centers are franchised by Winchester-Western. The operation and facilities are described.

70688 Kyle, A.D. Photography and game calls. IDAHO WILDL. REV. 19(4):16, Jan.-Feb. 1967. Photo.

The place of photography in wildlife public relations work is pointed out. Films often give the sportsman a new knowledge.

70689 LaPage, W.F. SUCCESSFUL PRIVATE CAMPGROUNDS. A STUDY OF FACTORS THAT INFLUENCE THE LENGTH AND FREQUENCY OF CAMPER VISITS. Upper Darby, Northeastern Forest Experiment Station. 22p. 1967. Map, illus., tables. (U.S. Forest Service, Res. Paper NE-58).

Certain characteristics of campground visitors provide useful measures of a camping enterprise's potential for success. Among a self-selected sample of 1,000 visitors at private campgrounds in New Hampshire, visit lengths, frequencies, and return visit intentions were all significantly influenced by major attributes of the campgrounds, the campground managers, and the campers themselves. Shorter and less frequent visits were found to occur at campgrounds that were small, new, had low investments, had no water for swimming, and where the campground owner was a camper himself.

70690 Lattimore, H. The TSA Lattimore Handicapping System. SOARING, 31(3):12-14, Mar. 1967. Tables.

The Lattimore TSA Handicapping System is described. It allows for the average thermal strength and varies the correction factors to suit the conditions in soaring. The Soaring Society of America recognizes the growing demand for a fair sailplane handicapping or performance equalization system which could be used in contests where sailplanes with wide differences in performance are competing against each other.

70691 Leaming, G.F. The Arizona economy in 1966--and the outlook for 1967. Sector by sector, county by county. ARIZ. REV. 16(3):21-32, Mar. 1967. Maps, tables.

Manufacturing and construction, the mining industry, travel and tourism, agriculture and trade and other factors affecting the economic growth and status for Arizona in 1966 and the prospects for 1967 are discussed. These elements are illustrated graphically and by tables for each sector and county. Tourism declined in southern Arizona in 1966 and might continue to drop in other parts of the State during 1967. Statistics on visits to national parks and monuments in Arizona reflect the downward trend.

70692 Lifetime Sports Recreation Project to be expanded. PARKS RECREAT. 2(1):24, Jan. 1967. Photo.

Through a grant from the Lifetime Sports Foundation, the National Recreation and Park Association conducted a Lifetime Sports Recreation Project in 1966. Its purpose was to promote greater participation in lifetime sports and to show the value of instructional programs. Seven cities and one county participated in this first pilot project. The success of the 1966 project caused the expansion of the program to include 100 communities and agencies in 1967.

70693 Lillard, R.G. EDEN IN JEOPARDY. MAN'S PRODIGAL MEDDLING WITH HIS ENVIRONMENT. New York, Knopf. 337p. 1966. Ref., map, photos.

The book describes and diagnoses big, tangible twentieth-century changes. Southern California serves as a basis of analysis. Bulging populations, using strong tools, change the natural setting and artifacts of civilization. These changes include such major fields as transportation, agriculture, water systems, industry, recreation and the arts. They involve sea water, landforms and the atmosphere. The cumulative activity in pursuit of the material side of life jeopardizes man's pattern of life and even his biological relationship with his environment. The pattern of recreational pursuits described include sports and social events; boating and arboretum visiting; visits to Marineland and Disneyland; movies, art and music. The cultural status is analyzed. F867 L7

70694 Limburg, A. 1967: a \$3 billion year for pleasure boats. SOUTHW. HOL. 20(12):10-12, Dec. 1966. Photo.

Based primarily on boating equipment shipments for the first nine months of 1966, BIA Executive Director Fred B. Lifton forecasts that Americans will spend nearly \$3 billion on pleasure boating during 1967. After further explanation and discussion of the outlook for 1967, Lifton reported that BIA has added one of the nation's foremost architects, David D. Beach, to its staff. As a part of BIA's accelerated program of safety and engineering services to the marine industry, Beach will expand the scope of the BIA standards program.

70695 Lindberg, M. What's back of the pack? Tips for those who carry their camp. BET. CAMP. 7(8):22-24, Sept.-Oct. 1966. Photos.

Information is given on the selection of backpacks for camping trips. Some of the determining factors are: 1) length of trip; 2) size of the group; 3) size and health of person carrying the backpack; 4) conditions under which the trip will be taken. Several equipment and prepared food companies are listed.

70696 Linder, R.L. Mountain climbing not limited to experts. PARKS RECREAT. 2(3):30-31, 57, Mar. 1967. Photos., illus.

Alaska Methodist University in Anchorage now offers a physical education activity course in Beginning Mountaineering. The class aims to develop skills suitable for beginning mountain climbing in the students, to provide them with beginning mountaineering experience, and to give them a lifetime recreation outlet.

70697 Lustig, S. Cycling for community service and for fun. PARKS RECREAT. 2(4):23, 46, Apr. 1967.

Various cycling programs initiated by the Harrisburg, Pa. Recreation Bureau are described.

70698 McAlister, J. A few western rivers. AMER. WHITE WAT. 12(3): 9-11, Winter 1966-1967. Photos.

Canoers in search of good canoe trails can learn about canoeing on the Green River, the Snake River, and

other delightful western rivers from this article.

70699 McCord, H.L. The climbing hunter. AMER. RIFLEM. 114(6): 44-47, June 1966. Illus., photos.

Techniques for hunting in the high country are described. Footgear and clothing requirements are mentioned and methods of mountain climbing: belaying and rappelling are treated in relation to the hunter's experience.

70700 McHugh, J. 1967 Industry buying forecast. AMUSE. BUS. 78 (38):18-19, Sept. 24, 1966. Photo.

The author forecasts a profitable year in 1967 for the amusement industry. The Montreal Expo '67 and the 1968 HemisFair in San Antonio, are contributing greatly to the economy of Canada and the United States.

70701 McLaurin, E. Crazy quail. FLA. WILD. 20(8):25-27, Jan. 1967.

Trap and skeet shooting are ways to keep in hunting form, but a new shooting game, "Crazy Quail," offers a form of shotgun practice that closely duplicates upland gunning. Details of the equipment and method of shooting are described.

70702 MacMullan, R.A. Conservation vs. recreation. MICH. CONSERV. 35 (5):2-6, Sept.-Oct. 1966. Photos.

Conservation officials express concern over the increased recreational interests and activities on the

natural resource gains made by conservationists in the last fifty years. The quality of outdoor recreation and the preservation of wilderness areas must be upheld to meet the changing needs.

70703 Mannix, D.P. A SPORTING CHANCE. UNUSUAL METHODS OF HUNTING. New York, E. P. Dutton. 253p. 1967. Ref., photos.

Describes the author's experiences in hunting with unusual devices. The old techniques of hunting with feral cats, the blowgun, falcons, bows and arrows, crossbows, ferrets, boomerangs, terriers and bolas require more skill than modern methods and are more of a challenge for recreationists. They also bring a man closer to nature. Aquatic hunters fish with trained aulingas, otters, and cormorants. Harpooning is an old aquatic art while dangerous big hunting is pursued with hounds. Unusual hunting includes snake and toad catching. The most dangerous game is tracking and hunting man. The sources of weapons and animals for the hunt are described. SK36 M34 1967

70704 Martin, J. Old man of the skis. SOUTHW. HOL. 21(1):16, 40, 42-43, Jan. 1967. Photos.

The invention of water skis by Ralph W. Samuelson of Pine Island, Minn. and subsequent improvement of skis and power boats for better skiing are reported.

70705 Masters, H.B. The new leisure and its implications. In National Workshop on Cooperative Extension's Role in Outdoor Recreation, Athens, Ga.,

1967. PROCEEDINGS. Athens, Ga., Univ. of Ga. Center for Continuing Education, p.3-6, 1967.

The Director, Univ. of Ga. Center for Continuing Education discusses the importance of programs of study and research and education for leisure time use that will add to man's satisfaction. An increase in spare time necessitates the development of skills in creativity, fine arts, the humanities, and recreation to derive the most out of living.

70706 Maxwell, J. Roughing it. Whitewater canoeing is popular state sport. W. VA. CONSERV. 31 (5):8-10, July 1966. Photos.

Discusses a pleasant out-of-doors experience and its related aspects, canoeing in the streams of West Virginia.

70707 Melamed, M. Impact of specialized day camps. CAMP. MAG. 39(2):15, Feb. 1967. Photo.

Among the major summer activities organized for children, day camping has grown more than playgrounds or resident camping. This article surveys the kinds of day camps today, how they are oriented, and what courses and activities are offered.

70708 Merriam, L.C., Jr., Ammons, R.B. THE WILDERNESS USER IN THREE MONTANA AREAS. St. Paul, Univ. of Minnesota. 54p. 1966. Ref., maps, illus., photos.

This study reports on the findings

of field interviews with users of the Bob Marshall Wilderness Area, Mission Mountain Primitive Area, and Glacier National Park. It describes and contrasts the areas in terms of size, physiography, uses, access, facilities, mode of travel, and origin of visitor. It presents visitor's occupation and other socio-economic characteristics, and draws implications from the findings on wilderness management programs.

70709 Merrill, W.K. Don't get lost! OUTD. CALL. 2(2):46-48, Feb. 1967. Illus., photo.

The author discusses measures to take when lost while camping or hiking. Examples of signal codes and methods for finding direction are illustrated.

70710 Milstein, D.N., Reid, L.M. MICHIGAN OUTDOOR RECREATION DEMAND STUDY. Michigan State University, East Lansing. Dept. of Resource Development. Dept. of Conservation. 2v. 1966. Ref., maps, illus., tables. (Michigan. Dept. of Commerce. Technical Rept. No. 6).

Volume I discusses and illustrates the methods and models used and their application. Types included origin models, travel models, destination models, and systems models. This demand study is one element in a larger effort, the preparation of a Michigan Outdoor Recreation Plan, and an important beginning in the field of systematic recreational demand research. Volume II contains chapters on specific activities.

70711 Miss America statistics. SOUTHW. HOL. 20(7):10-11, 16, 46, July 1966.

Surveys indicate growth in the recreational vehicle industry is a result of: (1) an increased interest in outdoor recreation, (2) the improvement of recreational vehicles and facilities to serve them, (3) federal recreational legislation to promote the industry, (4) economy in travel.

70712 Mongeon, E.J. Retarded find new hope in swim therapy. SWIM. POOL AGE. 41(3):40-43, Mar. 1967. Photos.

The national director of Water Safety for the American Red Cross discusses specific values of swimming and life-saving classes for the mentally retarded.

70713 National Conference on State Parks, Maine. State Park and Recreation Commission. STATE PARK FEES AND CHARGES SURVEY 1966. Washington, National Conference on State Parks, 22p. 1966. Tables.

Reported here are the findings from a nationwide State Park fees and charges survey. Data are tabulated under 3 categories: entrance fees and related charges, facilities and activities, and overnight accommodations. The last comparable nationwide survey was made by the National Park Service in 1954.

70714 National Federation of State High School Athletic Associations. High school federation releases team participation survey. SPORT-SCOPE, 12(3):1-2, June 30, 1967. Tables.

According to the 1967 Sports

Participation Survey, basketball was again the most popular high school sport based on interschool competition. Track and field ranked second, with football coming in third. With regard to individual participants, however, the order was changed: football was the most popular, basketball ranked second, with track and field in third place.

70715 National Institute on Girls Sports. PROCEEDINGS, 2d. 1965. Washington, American Association for Health, Physical Education and Recreation. 136p. 1966. Ref., illus., photos., tables.

The second of three institutes is an effort of the Women's Board of the Olympic Development Committee and the Division of Girls and Women's Sports for AAHPER to stimulate interest in and emphasize the value of sports for women. This institute is devoted to canoeing and kayaking; diving; fencing; gymnastics; track and field; philosophy and research. GV709 N33 1965

70716 National Skeet Shooting Association. 1967 SKEET RECORD ANNUAL, Dallas, Tex. 359p. 1967. Photos. (Skeet Shoot. Rev. Suppl.).

An annual directory contains official skeet rules for 1967; the 1967 N.S.S.A. officers, executive committees, state directors, and directors elected by the board; the names of N.S.S.A. members, membership numbers, addresses, and 1966 averages as of the beginning of the 1967 season of competitive shooting; the N.S.S.A. bylaws; directory of affiliated clubs and associations; currently recognized world records;

the N.S.S.A. champions, year-by-year; high average leaders, year-by-year; and all 1966 state champions.

70717 Neely, W.W. Farmers find many ways to sell fishing and add to income. SOIL CONSERV. 32(8): 176, 177, Mar. 1967. Photos.

Fishing privileges on some farm ponds are sold on an "honor" system while others have a check in and out enterprise with concession stands for refreshments bait and tackle. "Put and take" ponds (usually small) are proving popular. Fee-fishing helps meet the fast-growing need for outdoor recreational facilities.

70718 The Neighbor Islands. PACIF. TRAV. NEWS, 10(8):44-47, Sept. 1966. Photos.

The Neighbor Islands of Hawaii, Kauai, Maui, Molokai and Lanai are visited by 70% of the tourists to Oahu and Waikiki. All island sky tours and cruises are popular and hotel accommodations are increasing rapidly. The State expects a million visitors a year by 1970. Top sight-seeing attractions and top sports attractions are described. Scheduled flights, tours, cruises, roads and accommodations are listed.

70719 Niehuis, C.C. Varmint calling ... and the hunting. ARIZ. WILDL. SPORTS, 38(1):37-38, Jan. 1967. Photos.

This article gives information about the art of calling wild animals and birds for hunting purposes. Varmint callers often assemble and

organize clubs. Now there are clubs in all the major cities of Arizona, an Arizona Varmint Callers Association, and a number of California clubs. The Association schedules regular contests on calling of all kinds of game birds, animals and predators.

70720 The 1966 Sports and Recreation Participation Survey. SPORTSCOPE, 12(1):1-7, Jan. 31, 1967. Tables.

This survey report gives participation figures sport by sport for 1966 with comparisons for 1965, 1961, and 1956 when available. The sport with the greatest number of participants was cycling, with boating second, and volleyball third. On page 7, the organizations supplying the information for the survey are named.

70721 Oberste, L. Camping vacations, Arkansas style. SOUTHW. HOL. 20(6):34, 37, June 1966. Photo.

Camping continues to be the fastest growing outdoor recreation activity in this country. Both private industry and State and Federal government are endeavoring to meet demands for new equipment and expanded campgrounds. New parks, campsites, fees and permits for Arkansas campers are discussed.

70722 Oklahoma Outdoor Recreation Conference, 1st, Stillwater, March 9-10, 1967. PROCEEDINGS. Stillwater, Oklahoma State University, 121p. 1967. Maps, illus., tables.

The first annual Oklahoma Outdoor Recreation Conference brought together people who were interested in

outdoor recreation from both the public and the private sectors of Oklahoma. Using the theme "Economic Development Through Pleasure and Profit", the Conference discussions focussed upon the potentials for and the problems of outdoor recreation in Oklahoma. This Conference provided a meeting ground to discuss mutual problems, exchange ideas, and further develop the image of Oklahoma as a State with outstanding recreational facilities.

70723 Ottum, B. Riding the wave of the East Coast's surfing boom. SPORTS ILLUS. 25(3):30-37, July 18, 1966. Photos.

Surfing has become a recognized sport and may one day become an Olympic event. Californian Phil Edwards, recognized as the world's best surfer, is discussed.

70724 Outdoor lighting. Night-time basketball fights juvenile delinquency. AMER. CITY, 81(8):124, Aug. 1966. Photo.

The Sports Booster Club of Leonia, N. J. is fighting juvenile delinquency by planned activities during the summer months. The successful program is now in its fourth season and consists of 8 teams and a 56-game schedule. Good lighting is one of the factors which contribute to the success of the night-time basketball games.

70725 Page, W. First shootoff of the franchises. FIELD STREAM, 71(11):12, 14-16, Mar. 1967. Photos.

The first nationwide combination skeet and trap championships among shooters using the forty Winchester-franchised gun clubs were held at Lake Wales, Florida. This article reports the two-day contest, gives information about the franchised gun clubs, and some projections for the future of shooting matches.

70726 Parkinson, L. The perfect gun. GUNS AMMO. 11(4):40-45, 61-64, Apr. 1967. Photos.

The various rifle and shotgun combinations of foreign and domestic manufacture are described. These can add to the pleasures of hunting by improving chances for success. Attributes of the perfect gun are discussed.

70727 Paulson, F.M. Boating: Clear sailing ahead. FIELD STREAM, 71(9):40-41, 74-77, Jan. 1967. Photo.

An article for recreational boating enthusiasts, it describes 1967's new and better boats, built safer and with more dependable engines. Factors in growth of boating and the role of the Federal government in promotion of outdoor recreation are discussed.

70728 Peery, C.H. Fee fishing for trout. VA. WILDL. 27(8):6-7, Aug. 1966. Photos.

An explanation is given of the fee concept and program conducted at Big Tumbling Creek for trout fishermen. The Virginia Game Commission initiated the method in 1964.

70729 Pepper, C. COOKING AND CAMPING ON THE DESERT. San Antonio, Tex., Naylor. 82p. 1966. Illus., photos.

The book contains instructions for cooking on the desert and gives a variety of recipes with menus. The final chapter prepared by Jack Pepper contains information on driving and survival in the desert. TX823 P45

70730 Peterson, G.A., Edgren, H.D. THE FUN IN WINTER CAMPING. New York, Association Press. 128p. 1967.

A condensed version of The Book of Outdoor Winter Activities, the book is a guide to outdoor games, sports, and hobbies. It gives advice about winter hazards, suitable equipment, and both the camping and sports skills that are needed. Some camping experience in the summertime, and camping skills which include packing, hiking, climbing, cooking, wood-chopping, fire-making, use of stoves, tent erection, shelter construction, map and compass reading, first aid, and general campcraft are recommended before rugged winter-time camping is undertaken. GV841 P42

70731 Peterson, R.T. The listing game. NAT. WILDL. 5(2):28-31, Feb.-Mar. 1967. Photos.

The sport of bird-watching and listing is compared for thrills to the older art of hunting. Varieties of bird lists, the Christmas bird census, champions in bird listing, rare finds and the travels of bird watchers are described.

70732 Phillips, N. Go the trail bike way! BET. CAMP. 8(3):18-21, Mar. 1967. Photos.

The attributes of a trail bike for climbing are enumerated. Information on cooking equipment, clothing and tents for trail bike campers is supplied. The costs and skills required in using the equipment are described.

70733 Phinizy, C. A diver's dream come true. SPORTS ILLUS. 26(6): 38-41, Feb. 6, 1967. Photos.

In 1957, The Underwater Explorers Club built a school for divers on Grand Bahama Island. Basic scuba diving and snorkeling are taught at the school, which is also prepared to serve the experienced diver.

70734 Playscape phototypes. PARKS RECREAT. 1(12):973, Dec. 1966. Photos.

A recent playground equipment exhibit, "Playscape," showed the use of a wide variety of plastic and fiberglass products such as are usually employed for non-play industrial uses. After temporary placement in one of Brooklyn's vest-pocket parks, the Playscape exhibit may go on tour to selected cities.

70735 Prendergast, J. The happy environment--recreation and parks. In Texas Conference on Our Environmental Crisis, University of Texas, 1965. PAPERS. Austin, University of Texas, School of Architecture, p.163-173, 1966.

Every man seeks the happy environment in which he lives, works, worships, and spends his free time. The article portrays elements of the happy environment. One element is physical, the external environment of land and water, buildings and roads. It includes both natural and man-made beauty. Another element is spiritual, internal concerns, such as man's need to create, to strive, to excel. The pursuit of happiness is considered to be the pursuit of excellence; that only he is truly happy who is using all his powers to the highest degree. Thus, happy environment is made up of external beauty and internal excellence. Recreation should not be restricted to playgrounds and community centers, but should encompass all of life. Through creative leisure-time programs, through outdoor recreation, through parks, there can be the further development of the American character. HN53 T47 1965

70736 Renstrom, R.C. Trail bikes for sportsmen. FIELD STREAM, 71 (8):48-51, 26-28, Dec. 1966. Photos.

Recently, change has been taking place in the mode of transportation for sportsmen. There are many new and improved trails that the Forest Service, and various fish and game departments have been building and a variety of trail bikes on the market at relatively low prices. Various trail bikes are described with their characteristic features.

70737 Return to glory: U.S. marksmen recapture international rank. AMER. RIFLEM. 115(3):21-23, Mar. 1967. Photos.

This article discusses the rise of American shooters from inglorious defeat in 1954 to top position in the 1966 international competitive matches at Wiesbaden, West Germany. It describes the training program and achievements of leaders on the American teams. Plans for the 1970 squad and future programs are being developed.

70738 Richardson, R. 1967 vehicles for camping. BET. CAMP. 7(9):20-22, Nov.-Dec. 1966. Photos.

To help the camper get the right vehicle for his needs, truck manufacturers have developed a special breed of truck variously called the Camper Special, Custom Camper, Campermobile, etc. A variety of standard production options and accessories are combined in one group and added to a pickup to create these vehicles. Vans and special-purpose recreational vehicles are also playing an important role. Vehicles produced by Chevrolet, Dodge, Ford, General Motors Corp., International and Kaiser Jeep are described.

70739 Ristine, S. Heating up a cold trail. TRAIL. LIFE, 27(1):52-53, 107-111, Jan. 1967. Photos.

Three major developments now allow trailer travel almost anywhere despite temperature and weather conditions: improvements in winterizing trailers and equipment; the astonishing number of new all-weather highway miles available; and the growth of new wintersports complexes accessible from these highways. These three have turned travel trailering into an all-year recreation. These developments are explained.

70740 Robinson, F.M. New dimensions in camping for the physically handicapped. PARKS RECREAT. 2(2): 21, 40-41, Feb. 1967. Photos.

Recent recommendations on camping for the crippled child by leaders in service organizations provide opportunity for the handicapped child to live, work and play with his non-handicapped peers. This concept represents a planning challenge to the camp director. Camps for the severely handicapped are scarce. A special unit sponsored by the Easter Seal Society was provided for these children at Agassiz Village in the summer of 1965. Selection of children was based on performance, intelligence, medical diagnosis and aspects of the child's individual and family situation. Further research is proposed. Educational aspects of socialization of handicapped with non-handicapped complement the values gained by the handicapped alone in the camping experience.

70741 Rublowsky, J. NATURE IN THE CITY. New York, Basic Books. 152p. 1967. Ref., photos.

The author discusses the origin of urban growth and the effects of urbanization upon the community, and plant and animal life. The adaptation and survival of mice, rats, cats, dogs, and other living things in the city are considered. New York is given as an example to illustrate the ecology and natural history of plant and animal life in a modern city. QH104 R8

70742 Scheele, W.E., Moreno, D.H. Cleveland's new aquarium. EXPLORER, 9(1):22-25, Spring 1967. Illus., photos.

In twelve years of operation the Cleveland Aquarium has been enormously popular with an annual attendance of about a quarter of a million visitors. Additions are planned. The paper deals with the progress and cost of development.

70743 Scheele, W.E. Summer. The time for rock hounds. EXPLORER, 9(2):4-7, Summer 1967. Photos.

Describes the values of rock collecting for children and amateurs, methods of discovery and preservation of specimens, and the all-important identification and publication of rare specimen finds.

70744 Schlatter, J.M. Ski jumping. WIS. TALES TRAILS, 7(4):31-35, Winter 1966. Illus., photos.

The world of ski jumping is revealed, giving its history in the United States and information about the Winter Olympics, the United States Ski Association, and other skiing and ski jumping groups.

70745 Schmid, A.A. Economic analysis of water resource problems. Nonmarket values and efficiency of public investments in water resources. AMER. ECON. REV. 57(2):158-168, May 1967. Ref. (American Economic Association. Papers and Proceedings, 79th annual meeting, 1966).

How to predict the performance of the economy with reference to the

production and distribution of certain water-derived goods, often alleged to be inappropriate for market exchange, is discussed. The term "environmental goods" is used here to mean health, scenic beauty, the reduction of threats to human life, and the preservation of historic sites. Or it could mean the protection of areas of wilderness or unique beauty, areas of scenic, historical and scientific interest, the preservation of rare species, and other such intangibles. These "environmental goods" are considered incommensurable. Yet prices are implicit in the process of choice. For example, the exchange of certain commodities, such as these intangibles, may be prohibited, but the exchange foregone is the price. With environmental goods such as view and health, people may not be able to get the price set and product mix they wish. They may want to act as a group for public environmental goods or change property rights even for individualistic environmental goods. The initial distribution of water ownership, as various aspects of it become valuable and new uses are envisaged, would be an example. When tastes change, both demand and supply curves may be shifted. Economic analysis should present data to help people choose the game they want to play and the wide range of opportunities available as well as how to play a given game to their advantage.

70746 Schneeflock, W. Exhibitor goals: Co-operation & competition. AMUSE. BUS. 79(11):10, Mar. 25, 1967. Photo.

Educative values of fairs are stressed. A 4-H Club Specialist,

Agriculture Extension Service, Univ. of California, describes how 4-H members learn the principles of co-operation, competition, high standards, showmanship and the skills necessary in preparing for an exhibit. Judges and leaders must be well trained and well-informed in order to make fairs an enriching experience for boys and girls.

70747 Schrimpf, L.H. Gear for cruise camping. BET. CAMP. 7(7): 50-52, July-Aug. 1966. Photos.

A description is given of the gear necessary for cruise camping. Tent campers may use the same gear for both land and water camping.

70748 Scott, W.C. Future still ahead in outdoor sports. SOUTHW. HOL. 20(7):12, July 1966.

Statistics are given to substantiate the prospects of an increasing year-around interest in outdoor recreation.

70749 Seitz, N. Tennis. OKLA. TOD. 17(2):8-10, Spring 1967. Photos.

Tennis has become a popular sport in Oklahoma with many Oklahomans participating in national championship games.

70750 Shrake, E. SAR. Search and Rescue. SPORTS ILLUS. 24(22):76-78, 81-84, 89-90, 92, May 30, 1966. Illus.

An account of the inexperienced boaters and surfers who play in our waters and often require the help of the Coast Guard.

70751 Sibley, H. Portable ice-fishing house. FIELD STREAM, 71(8): 54-45, Dec. 1966. Illus.

Describes the comforts, the assembly, and the storage of this portable hut, which can travel to any fishing location that can be reached by automobile. Diagrams to illustrate the assembly of the hut are given.

70752 Siple, G. Cycle caving. AMER. CYCL. 5(9):7, Nov. 1966. Photo.

Cave exploring is only one of the many varieties of cycling. The equipment and other facets of the sport are discussed. The world's first underground cycle-cross has been scheduled for May 1967 from Scioto River Valley to Carter Caves, Kentucky.

70753 Ski Magazine, Auran, J.H. AMERICA'S SKI BOOK. New York, Scribner's. 473p. 1966. Illus., photos.

The book provides information on ski instruction, equipment, and competition. The historical development of the sport is traced. A guide to travel and ski resorts and a glossary are included. GV854.4 S57

70754 Slosky, B., Walker, A. GUIDE TO THE UNDERWATER. New York, Sterling. 192p. 1966. Photos.

Data is presented on skin diving and observation of marine life in its natural environment. Equipment, methods of observation, collection and hunting, preservation,

photography, and other information for underwater exploration are given. GV840 S78 S58

70755 Smith, G. Recreational caving in California national forests. NSS NEWS, 25(1):13-14, Jan. 1967.

Caving is considered forest recreation by the Forest Service, which manages 17 national forests in California. This article gives information about the caves administered by the Forest Service, and how they are protected and operated for the public benefit.

70756 Smith, G.A. INTRODUCTION TO MOUNTAINEERING. Rev. edition. New York, Barnes. 134p. 1967. Ref., photos.

This work is a detailed explanation of the art of mountain climbing and points up the pleasures and dangers of the sport. The value of training and knowledge is emphasized. Climber's codes, information on mountaineering photography, suggested readings, names of mountain clubs and a glossary are included. G510 S54 1967

70757 Smith, H.E. Calling all rock hounds. TRAIL. TRAV. 32(1):27, 52, Jan. 1967. Photo.

Rock Hound State Park in New Mexico is unique in that it has been designed primarily for rock collectors. Within the rugged terrain of 240 acres, signs encourage visitors to pick specimens of rocks. There is no fee and no limit on quantity.

70758 Smith, I. Arizona's underground wonderland. ARIZ. HIGHW. 42(9):28-39, Sept. 1966. Photos.

A description of cave exploration and the geological formations in caves is given. Members of 3 Arizona caving groups, two of which are chapters of the National Speleological Society, have vowed to keep the location of these underground caverns unidentified until there is some kind of protection, legislation or other kind, against destruction by vandals.

70759 Smith, J., Smith, D. Forty-six nights for \$8.50. TRAIL. LIFE, 26(12):44-45, 79-81, 90-91, Dec. 1966. Map, photos.

This account tells how one can travel economically with a \$7 Federal Recreation Area permit, a trailer, a set of well detailed maps, and a first-class campground guide book.

70760 Spears, C. Over 16 million visit State parks. KY. HAP. HUNT. GROUND, 23(2):22-23, Mar. 1967.

Statistics are provided for Kentucky's 35 parks and shrines. These cover camping, rooms and museum and shrine attendance records during 1966.

70761 Stensrude, C. About the sport of kings. ARIZ. WILDL. SPORTS. 38(1):16, Jan. 1967. Photos.

Falconry, one of the oldest forms of hunting, has not achieved legal acceptance as a field sport because of misunderstanding and ignorance.

The advantages and personal satisfactions gained from such a robust field sport are considered.

70762 Stephens, W.R. Infrared heat extends recreation season. PARKS RECREAT. 2(1):31, 54-55, Jan. 1967. Illus.

Outdoor recreation uses for infrared heating systems are explained by a specialist in Infrared Markets of the General Electric Company.

70763 Stone, W.L. A sociologist discusses the new meaning of recreational use of leisure. PARKS RECREAT. 2(4):22, 56-59, Apr. 1967.

Modern society characterized by labor saving machines provides opportunities for more leisure and more income in an economy that is consumption oriented. Now there are many patterns of leisure time in which man may experience the creative process.

70764 Sullivan, G. THE COMPLETE BOOK OF FAMILY SKIING. New York, Coward-McCann. 223p. 1966. Photos.

Improvement in ski equipment and techniques, widespread availability of the sport, better skiing instruction, and an increase in ski resorts are resulting in rapidly expanding popularity of skiing in the U.S. Locations of resorts, tips on ski safety, information on skiing techniques and skiing as a family sport are discussed. A glossary of terms is included. GV854.4 S8

70765 Taking the measure of the \$200 million ski market. HOTEL MANAGE. REV. 181(11):27-29, Nov. 1966. Photos., tables.

Statistics are given on the ski market based on studies by the Area Redevelopment Administration and the Forest Service. The Public Land Law Review Commission will report to Congress at the end of 1968 on utilizing public lands for ski sites.

70766 Talley, R.E.L. Flying pack trip. BET. CAMP. 7(8):36-40, Sept.-Oct. 1966. Photos.

A wilderness area that is inaccessible by car can be reached by a flying pack trip. Information is given on costs involved, areas to visit, airstrips available, etc. Other information can be obtained by writing to the National Park Service, Washington, D.C.

70767 Tanler, B. Equipment rental: how good? SKI, 31(7): 35-37, 85-87, Feb. 1967. Illus.

A survey is conducted on 50 ski shops in the United States and Canada to determine the quality of rental equipment. A check list for reliability of individual items is provided and fees for rental are mentioned.

70768 Texas. Highway Dept. Travel and Information Division. TEXAS VISITOR INDUSTRY REPORT 1966. Austin, Tex. 17p. 1967. Illus., photos.

This report provides the facts and

figures on the Texas tourist industry.

70769 Tinsley, R. Calling up a bobcat. TAM ARCH. WORLD, 15(11):16-18, 51, Dec. 1966. Photos.

The habits and reactions of bobcats are discussed. Predator calling requires patience.

70770 Towell, W.E. Higher permit fees? MO. CONSERV. 27(10):1-2, Oct. 1966.

The Conservation Commission of the Missouri Department of Conservation will increase both the hunting and fishing licenses by \$1.00 and \$1.50 respectively by January 1, 1967. The article discusses the necessity and the advantage of the increases.

70771 Travel Trade. DISCOVER AMERICA SALES GUIDE. 1(1):1-304, Winter-Spring edition, 1966-67.

The guide is a comprehensive listing of commissionable services to aid the nation's travel agents to promote tourism throughout the United States. The Discover America program is the tourist industry's effort to collaborate with President Johnson's pledges "to make the scenic, historic and recreational wonders of our country easily available" to every citizen. Sections cover State and local area attractions, hotels, tour operators, airline tours, bus lines, sightseeing, railroads, car rentals, etc.

70772 Troyer, B.L. The horse comes back. OUTD. IND. 32(2):14-17, Nov. 1966. Photos.

Describes the increasing popularity of horses in Indiana in show driving, cutting competition, rodeos, running races, and harness racing.

70773 Turner, J.B. Five years of Utopia. ATHLET. J. 47(3):56, 79, Nov. 1966. Photos.

Discusses the merits of the all-weather track. This type of track is not affected adversely by weather, has good traction, and requires a minimum of maintenance.

70774 Tyll, A. WATER SKIING. New York, Arco. 112p. 1966. Photos.

The book provides information on boats, ski equipment, skiing techniques, slaloming and other facts for those who wish to develop the art of water skiing. An introduction to surfing and "Surfing Tips" by Doug Elliot of the United States Surfing Association, is included. GV840 S5T3

70775 Tzimoulis, P. Crystal river. Florida's fun spot for year 'round diving. SKIN DIV. 15(10):34-37, 48-49, Oct. 1966. Map, photos.

Crystal River, a river, a freshwater spring, and a town, all having the same name--offers a wide range of attractions. To discover underwater beauty by scuba diving exploration is its primary attraction. Activities could include boating, skin diving, swimming, underwater cave exploration, picnicking, and

underwater photography. On land, sightseers could visit the Crystal River Indian Mound Museum or the Mermaids, an underwater aquatic show at nearby Weeki Wachee Springs. Information about transportation to Crystal River is provided.

70776 U. S. Bureau of Outdoor Recreation. OPERATION GOLDEN EAGLE. DIRECTORY OF FEDERAL RECREATION AREAS REQUIRING ENTRANCE ADMISSION AND USER CHARGES. 1967. Washington. 16p. 1967. Illus.

Federal recreation areas requiring fees are listed by State, with relevant indications under the categories of (1) \$7.00 Golden Eagle or 50¢ daily individual admission, (2) \$1.00 daily carload, (3) \$3.00 to \$5.00 carload up to 6 months, or (4) special user or service charges.

70777 U. S. Coast Guard. BOATING STATISTICS 1966. Washington, Govt. Print. Off. 54p. 1967. Ref., illus., tables (CG-357).

This publication conveys such statistical information as boat numbering registration figures, boating accident data, and information on related activities.

70778 U. S. President's Committee on Employment of the Handicapped. GUIDE TO THE NATIONAL PARKS AND MONUMENTS FOR HANDICAPPED TOURISTS. Washington, Govt. Print. Off. 8lp. 1966. Photos.

Not only are the national parks and monuments in each State included but all areas administered by The National Park Service, such as,

national battlefields, national battlefield parks, national historic sites, national historical parks, national memorials, national memorial parks, national military parks, national recreation areas, and national seashores. The guide gives a short description of each and information that a handicapped visitor would need to know. Is any of it accessible to wheelchair visitors, and what portions? Are ramps and elevators available? Are there few enough steps that a visitor in a wheelchair could manage with the help of one other person? Should it be avoided by visitors with heart conditions? Elevations are usually listed. Are medical facilities available? Are special features such as an audio-visual program or booklets in braille offered? The information will help a handicapped person to plan a vacation trip to enlarge his horizons and to travel within the scope of his limitations.

70779 Vance, L. Hunting in a hurrying world. NEBRASKALAND, 45(1): 81-83, Jan. 1967. Photos.

The status of Nebraska's game populations are discussed. Despite certain losses of game species due to displacement of their native habitat, many species exist in greater numbers and offer superb recreational opportunities to hunters.

70780 Wambold, H.R. Some shots are tough. TAM ARCH. WORLD, 15(10):6-8, Oct. 1966. Photos.

There are various techniques and shooting positions involved in successful archery. Some of the

methods and positions are discussed.

70781 West, F. Salmon fishing big bargain. WEST. OUTD. 13(10):31, Oct. 1966. Photo.

"No license is required for salmon fishing in Washington and the boat cost is nominal."

70782 West, J., West, C. CRUISING THE PACIFIC COAST. MEXICO TO ALASKA. Princeton, N.J., Van Nostrand. 244p. 1966. Ref., maps, photos.

This book divides the Pacific Coast into three parts. First comes Baja California, with the cruising distance between chief Baja California points given in nautical miles. The second part is along the California, Oregon, and Washington coasts, with nautical mileage given between principal points of interest. The third part is alongside British Columbia and Alaska, and includes the nautical miles of coastal cruising between British Columbia and Alaska ports. A section about fuel, water and supplies; navigational aids; harbor facilities; communications; distances; customs procedures for foreign ports, and other pertinent data is provided at the end of each of the three parts of the book. Numerous photographs, maps, and 27 charts enable cruising boat owners to be familiar with some of the details of harbors, weather conditions and available facilities along the 4,000 miles from the upper parts of the Gulf of Baja California, northwest up the coast to Juneau, Alaska. F851 W48

70783 White, M. Refugee pheasants. WEST. OUTD. 13(10):24-25, 54, Oct. 1966. Map, photos.

Hunting pheasants beside a wildlife refuge can be a sporting proposition, so hunters find in Montana's Flat-head Valley. Canada geese are plentiful near the Ninepipe and Pablo refuges.

70784 Williamson, A.T. THE BASICS OF FISHING. New York, Hart. 210p. 1966. Illus.

Illustrated are methods and types of fishing, fishing baits and lures. Fresh water and salt water fish and their habitats are described.

70785 Wilson, D. Recreation and health. PARK ADMIN. 31(10):47, 62, Oct. 1966.

In an address at the Conference of the Scotland and Northern Ireland Branch of the Institute of Park and Recreation Administration on Recreation and Health, the Fife County Organizer of Physical Education states that physical inactivity is detrimental to health. For this reason, physical education is offered in a wide variety in the schools. There are programs to fit the various physical and mental needs of individuals.

70786 Wilson, J. Lake attendance booms! SOUTHW. HOL. 20(7):6-7, July 1966. Photos.

There was an increase of national attendance in 1965 over the previous year at Army Corps of Engineers water resources recreational areas.

Statistics are given for various lakes and reservoirs.

70787 Witt, J. Bow handles must fit each archer. TAM ARCH. WORLD, 15(10): 23, Oct. 1966.

The bowarm including the bowhand is the most important factor in good shooting. The techniques for proper grips on bows are discussed.

70788 Worley, O. It's pay-as-you-go for trout at Douthat State Park Lake. VA. WILDL. 28(4):14-15, Apr. 1967. Photos.

Douthat Lake at Douthat State Park near Clifton Forge, Va., is being stocked with trout experimentally for pay-as-you-go potential. Bounties on fish caught provide criteria for fisherman success. Details of the planned operation are provided.

70789 Young, G. Sailors of the sky. NAT. GEOGRAPH. 131(1):48-73, Jan. 1967. Photos.

A National Geographic Society staff writer describes his adventures as a neophyte sailplane pilot from his first flight to achievement of the Silver Badge. The state of soaring in the United States is reported and its relation to the international movement is given.

RESEARCH

70790 Cain, S.A. Man and his environment. POPULAT. BULL. 22(4): 96-103, Nov.1966. Illus.

Assistant Secretary of the Interior explains the difference between surroundings and environment as well as giving comprehensive definitions of ecology and environment. About the urgent need for considering ecological limits, he remarks that, "More and more the fields of fish and wildlife, oceanography, water management, land management, and broad environment areas are being forced to more adequate considerations of the ecological parameters within which they must work. This is coming slowly and painfully to road building, dam construction, and real estate development, but it is coming because we can no longer afford tunnel vision of our problems."

70791 Carroll, M.A. OPEN SPACE PLANNING. AN ANNOTATED BIBLIOGRAPHY. Urbana, Ill., Univ. of Illinois. 66 p., 1966. Ref.

The Open Space source materials cited here, including brief abstracts, are subdivided into five categories: (1) Open space concepts, approaches and philosophies, (2) Open space inventory and analysis, (3) Case studies: open space plans, projects, programs, (4) Implementation of open space programs, and (5) Comprehensive treatments of open space. The Appendices contain general and specific open space bibliographies and related planning studies for the Chicago metropolitan area.
Z7164 O7C3 1966

70792 Cottrell, L.L. Cherokee forest designs super campground area. TENN. CONSERV. 32(7):14-15, July 1966. Photos.

The Southeastern Forest Experiment Station is conducting a 6 year study to improve forest environment within an existent campground. The research was initiated because of the past history of poor planning or design practices in national forests, state parks, and national parks. The project includes 3 studies which will be conducted at the Indian Boundary Recreation Area.

70793 Cronin, L.E. Chesapeake Research Council. Three laboratories with similar interests combine forces to learn basic facts about the Bay. MD. CONSERV. 44(1):20-22, Feb.1967. Map, photo.

The recent creation of the Chesapeake Research Council, composed of 3 permanent local laboratories, the Chesapeake Biological Laboratory, Virginia Institute of Marine Science, and Chesapeake Bay Institute, will enable major laboratories to pool resources for important research projects in estuarine biology, hydrography, geology, fish and shellfish management and pollution-related subjects on the Chesapeake Bay. Characteristics of each of the three member laboratories and projected cooperative program are described.

70794 Ecology as a basis for 20th century planning and design. LANDS. ARCHITECT. 57(2):102-104, Jan.1967.

Some of the new roles of ecology for the future are suggested and ways in

which the design professions may open their ranks to ecologists as members of inter-professional teams. The collection of articles recounts the fragility of environments polluted by careless men, plus Sen. Gaylord Nelson's proposal for a national ecological inventory. Specific cases in which ecological expertise may point to better landscape design are also discussed.

70795 Glascock, H.R., Jr. Attitude of forestry profession on outdoor recreation & related research. N. Y. FOREST. 24(2):7-10, May 1967.

The Executive Secretary of the Society of American Foresters quotes several recent sources to point up the great need for basic research in outdoor recreation. Foresters recognize the importance of having factual knowledge on which to base greater production of recreation benefits from forest lands. At present there is a lack of such knowledge. Professional foundation in the physical and biological sciences needs broadening and strengthening with social sciences. Current forest recreation research in the U. S. is very meager. Only 66 full time professional people are involved on an expenditure of \$800,000 per year. In contrast, recreation and tourism generate a several billion dollar industry.

70796 Gloyna, E.F. Major research problems in water quality. In Kneese, A.V., Smith, S.C., eds. WATER RESEARCH. Baltimore, Johns Hopkins Press. p.479-493, 1966. Ref., tables.

The conflicting demands for water

are serious. Today the three leading water users--municipalities, industries, and agriculture--are being challenged by outdoor recreation, flood control, fish and wildlife, power, and navigation. While each exerts its influence on both quality and quantity, the effects of water use become more pronounced. To provide for a continued supply of useable water there must be an accelerated flow of ideas from the research laboratory to the field of application.

This paper describes the nature of pollution, some dimensions of the quality question, the current status of water renovation, and research needs.

70797 Goldsmith, J.R. Air pollution medical research. SCIENCE. 154(3756):1588-1591, Dec. 23, 1966.

Epidemiological studies show convincing associations between air pollution exposure and decreased respiratory function or increased respiratory symptoms. Emphasis has been placed on where and how pollutants react within the respiratory system. Research on such reactions was discussed at the eighth in a series of air pollution medical research conferences held by the American Medical Association in Los Angeles, March 2-4, 1966.

70798 Graham, F., Jr. The uncertain defenders. AUDUBON. 69(3):28-31, May-June 1967. Photo.

"Conservationists continue to encounter hostility among people with a vested interest-financial or

professional-in the use of persistent pesticides." DDT is the principle cause of alarm for wildlife. Complaints in court have used data based on modern analytical methods to justify their claim that continued use of persistent pesticides in open environments will be disastrous.

70799 Hatcher, H. Communication with our outdoor heritage. AMER. FOR. 73(1):14-17, 51-52, Jan. 1967. Photos.

In the past man had more direct personal involvement with nature. Today's communication with our outdoor heritage is more indirect and impersonal. If we are to live creatively in our environment, we must develop technologies for measuring and understanding our outdoor heritage. We need a satisfactory unit of measurement for outdoor recreation, for natural beauty, and for the quality of the environment in general. We must also encourage urban man to involve himself with his outdoor environment. We should establish major centers of education and research dealing with this problem area. With new knowledge and insights man can reach more realistic economic, social and political decisions; and with communication resources, may achieve new involvement with his outdoor environment.

70800 Herrington, R.B., Tocher, S. R. AERIAL PHOTO TECHNIQUES FOR A RECREATION INVENTORY OF MOUNTAIN LAKES AND STREAMS. Ogden, Utah, Intermountain Forest and Range Experiment Station. 21 p. 1967. Ref., map, illus., tables. (U.S. For. Serv. Res. Pap. INT-37).

Results of aerial photo techniques tested in Utah to measure the characteristics of mountain lakes and streams are described. The paper compares the accuracy of photo determination of lake depth with field measurements of lake depth. Aerial photographs provide less information for streams than for lakes. Procedures for all photo measurements needed to conduct lake and stream inventory are explained.

70801 Johnson, H.A. Some research needs in recreation. In National Workshop on Cooperative Extension's Role in Outdoor Recreation, Athens, Ga., 1967. PROCEEDINGS. Athens, Ga., Univ. of Ga. Center for Continuing Education. p. 138-142, 1967.

In this discussion of research needs in outdoor recreation, the speaker categorizes current recreation research under ten subject groupings. To these are added several other topics which should be studied. The need for motivational studies as well as a method to evaluate the intangibles in the recreation experience are also mentioned.

70802 Johnson, H.A., Huff, J.M. Outdoor recreation and associated research needs for suburban forests. N. Y. FOREST. 24(2):14-17, May 1967. Ref.

In a discussion of suburban forest recreation uses, suburban forests are defined as those susceptible to heavy day use and sometimes heavy overnight use by people from surrounding areas. In Berkshire County, Massachusetts, a study was conducted to determine private forest owners' characteristics and

attitudes about forest use. The survey results are provided here. Owners were concerned that the private forest be protected and conservatively managed to preserve its aesthetic value as an element of the landscape. Next, the discussion proceeded to the larger industrial and public forest holdings. Both were concerned about fire, vandalism, personal and public liability, deterioration of facilities from overuse or improper use, and the increasing demand for recreational services. Both industrial forest owners and public land managers accepted the multiple use principle and practiced it. They allowed extensive recreation uses on the rest of their lands within the limits of safety. Whether under private, industrial, or public ownership, amenity was considered the primary purpose of the suburban forest. With respect to continuing research needs, an understanding of motivating factors was considered indispensable to any policy, program, or use related to forests as part of our national heritage of natural resources.

70803 Knauf, K. Call in the experts. AMUSE. BUS. 78(40)20-22, Oct. 1966. Photos.

The advantages of experts from the Economics Research Associates in Los Angeles, in making feasibility studies in long-range planning for amusement industry groups are described. The basis for the market study involves "research and analysis of local economics and physical conditions--climate, competition, access and the local, regional and tourist markets."

70804 Kneese, A.V., Smith, S.C., eds. WATER RESEARCH. Baltimore, Johns Hopkins Press. 543p. 1967. Ref., illus., tables.

"The pressures on supplies of usable fresh water in many parts of the country has led to an increasing amount of research on the problems of planning and managing our water resources." These papers were originally presented at the Sixth Western Resources Conference, organized by Resources for the Future, the University of Colorado, Colorado State University, and the Colorado School of Mines. The book provides a survey of the major developments in water research during the past decade and gives recommendations about the most promising areas for future research efforts.

70805 Knetsch, J.L., Davis, R.K. Comparison of methods for recreation evaluation. In Kneese, A.V., Smith, S.C. eds. WATER RESEARCH. Baltimore, Johns Hopkins Press. p. 125-142, 1966. Ref., tables.

In the evaluation of recreation benefits, there is a sharpening of emphasis on economic benefits of recreation and the making of some useful estimates. There are primary benefits, or national benefits of recreation. Second, there are local benefits, or impact benefits. Both sets of values resulting from investment in recreation have economic relevance, but they differ, and they bear differently on decision. The most relevant economic measure of recreation values is willingness on the part of consumers to pay for outdoor recreation services. The discussion of

methods based on willingness to pay, includes a comparison between travel-cost and interview methods. Alternative measurement methods explained are (1) gross expenditure method, (2) market value of fish method, (3) cost method, and (4) market value methods.

70806 Leitch, W.C. Historical and ecological factors in wetland inventory. In North American Wildlife and Natural Resources Conference, 31st, Pittsburgh, Pa., 1966. TRANSACTIONS. Washington, Wildlife Management Institute. p. 88-96, 1966. Ref., maps, illus.

Whether it is called the inventorying of prairie marshes or the appraisal of prairie waterfowl environments, the inventory procedures are explained in this paper, with emphasis on the historical and ecological factors. Prairie Canada wetland inventories are being conducted by the U. S. Fish and Wildlife Service, Rose and Morgan, and Ducks Unlimited (Canada). The survey objectives and classification criteria of each of the three groups are explained and illustrated. Although there is some reference to Shaw and Fredine's study on wetlands of the United States, and to Bach's classification system for the North Dakota marshes, the focus and examples are mainly from the inventory work on the Canadian prairie wetlands. Additional data is provided also on the Ducks Unlimited (Canada) program which may be of use to groups working with prairie wetlands elsewhere. SK351 N872 1966

70807 Lyon, G.H. A summary of current research in outdoor recreation. In National Workshop on Cooperative Extension's Role in Outdoor Recreation, Athens, Ga. 1967. PROCEEDINGS. Athens, Ga., Univ. of Ga. Center for Continuing Education p. 119-137, 1967. Ref.

The growth of outdoor recreation and the need for additional recreational facilities are discussed. In order to provide competent guidance to local communities, State planners and administrators, a good research program in outdoor recreation is needed. Criteria used in identifying research in outdoor recreation are given and research publications and project summaries are listed. Several are discussed at length. The projects are analyzed in the following groups: "(1) demand determination; (2) consumer analysis; (3) evaluation of potential; (4) enterprise analysis; (5) land - use studies; (6) multi-use studies; (7) conflict of interest; (8) resource analysis; (9) other-my catch-all group."

70808 Maass, A. Benefit-cost analysis: its relevance to public investment decisions. In Kneese, A.V., and Smith, S.C. eds. WATER RESEARCH. Baltimore, Johns Hopkins Press. p. 311-328, 1966. Ref., tables.

For some time the U. S. Government has used benefit-cost analysis in the design and justification of dams and other water resource improvements. Currently, the government is trying to adapt the technique to other public investment programs. This technique has a major limitation because it ranks programs and projects only in terms of economic efficiency. Since objective functions

of most public programs are broader and more complex than the single objective of economic efficiency, benefit-cost analysis should be made applicable to the real issues of public investment. HD1694 ALK6

70809 McHarg, I.L. An ecological method for landscape architecture. LANDS. ARCHITECT. 57(2):105-107, Jan.1967.

The author presents the idea that ecology provides the single indispensable basis for landscape architecture, urban and regional planning. This basis is defined as the study of physical and biological processes, as dynamic and interacting, responsive to natural laws, employed in planning and design for human use. The use of the gross ecological inventory beginning with geologic time and proceeding to the present accumulation of flora, fauna and man provides the data bank for all further investigations. The next task is the interpretation of these data to analyze existing and proposed future human land use and management. Analytical data may be used to prescribe all co-existent, compatible uses which may occupy each area. The end product would be a map of present and prospective land uses constituting a value system.

70810 May, O.D., Jr. Fish population studies are important. S.C. WILDL. 13(4):4-5, Fall, 1966. Photos.

Basic questions are answered concerning fish population studies in general. Methods of determining the

numbers and species are described and a report of a daily run in fish sampling recounted. Research needs in successful fish management are discussed.

70811 Nielsen, L.E. Glacier research by mountaineers. SUMMIT. 13(2):18-19, Mar.1967. Table.

Mountaineering parties can make extensive measurements of glacier activity. The rate at which snow melts under various meteorological conditions is also easily measured. Various methods of measuring snow depth and age are discussed.

70812 Peakall, D.B., East, B. Let's not kill ourselves. Part 1. OUTD. LIFE. 138(2):17-19, 86-89, Aug.1966. Photos.

The use of pesticides is endangering the lives of fish and wildlife. Pesticide buildup in the tissue of fish are transferred to fish-eating birds and man who also consumes his catch. The residues may eventually affect human health. Studies conducted on the results of pesticide spraying are discussed.

70813 Raynes, B.C. How are we going to clean up Lake Erie? EXPLORER. 9(2):24-26, Summer, 1967. Photos.

The author discusses his water pollution abatement philosophy and the work the Applied Research group, Rand Development Corporation, Cleveland, Ohio is doing to find practical and economical solutions to existing problems. Three types of water pollution control projects

are described.

70814 Renne, R.R. A co-operative water research program and the nation's future. In Kneese, A.V., and Smith, S.C., eds. WATER RESEARCH. Baltimore, Johns Hopkins Press. p. 471-477, 1966. Ref.

The Director of the Office of Water Resources Research discusses background and provisions of the Water Resources Research Act, and the implications of the Federal-State partnership, for the solution of the nation's most difficult water problems.

70815 Renne, R.R. Inventing our future. Address at the Oklahoma State University Research Foundation, Stillwater, Okla. Jan. 9, 1967. U. S. DEPT. OF THE INTERIOR NEWS RELEASE. 9 p. Jan. 10, 1967.

Scientists and engineers, working in organized research and development projects, are the source of new technology in our economy. The major share of our research and development effort is accomplished through organized and institutionalized agencies financed in part or wholly by the Federal government. This tends to broaden and diversify the base of research. Aside from the Federal government, the aircraft, electronics, and chemical industries account for about two-thirds of the research and development work and funds. D.O.D., NASA, and A.E.C. are chief Federal agencies involved in research programs. Other Federal agencies showing an increase in funding are HEW and NSF. Agriculture, Interior, and Commerce conduct programs which relate to

natural resources, weather control, pollution, water quality, water quantity, and water conservation. Other agencies are devoting increasing scientific effort to problems of urban living, poverty and transportation. There is an underlying growth trend related to the Great Society and other public benefit programs. New technology will be directed toward human environmental and resource development. Thirty-seven predicted major scientific breakthroughs are listed. Grants and funding to universities are matters of executive policy.

70816 Resources for the Future. ENVIRONMENTAL QUALITY IN A GROWING ECONOMY. Baltimore, Johns Hopkins Press. 173 p. 1966.

These papers from the Resources for the Future 1966 Forum explore the nature and dimensions of the quality problems of natural resources largely from the standpoint of economics and the other social sciences. They present a wide-ranging collection of impressions, interpretations, and reports of research findings by scholars of varying interests and experiences who have given years of thought to one or another of the salient pieces of the problem. As a collection, the essays should contribute to a fuller understanding of what has been happening to land, water and air in the United States, particularly in cities and suburbs. It should also contribute to an appreciation of how much needs to be done to make this country a better place to live in, and a better idea of how groups and individuals can go about doing it.

70817 Rokeach, M. Values and consumer motivation. NEWS FRONT 11 (1):46, Feb.1966.

Research in progress on values at Michigan State University is reported by psychology professor Dr. Rokeach. He defines values, specifies two kinds, Instrumental Values and Terminal Values, and explains value systems. Assuming values have motivational properties, value systems are thought of as hierarchically arranged systems of motives acting together to form attitudes and behavior.

70818 Schell, K.F., and Stern, P.M. Recreation research in the South: Where and why does it lag? In Southern Land Economics Research Committee. OUTDOOR RECREATION RESEARCH IN THE SOUTH. Blacksburg, Va., Virginia Polytechnic Institute p. 33-40, 1967. Ref. (Southern Land Economics Research Committee. Publication no. 5, April 1967)

Little demand for research and planning in outdoor recreation in the South can be attributed to: (1) a lag in urbanization; (2) much available shoreline; (3) low per capita income for the regional population; (4) rural ties in the South render undeveloped facilities satisfactory; (5) insufficient demand and need do not induce economic development of public recreational facilities; (6) land grant universities have not been too active in recreation research. However, a growing demand for recreation research has been responsible for new planning procedures, socioeconomic studies, water control projects as TVA and programs at other agencies. Significant advances in research effort in the

South have been made through the Forest Service and the Agricultural Experiment Stations in cooperation with the Economic Research Service. An appendix lists current and recent outdoor recreation research at Southern land grant universities.

70819 Schover, D.S. A new technique for origin-destination studies. BET. ROADS. 37(3):25-28, Mar.1967. Photos, tables.

General American Transportation Corp., Chicago, Ill. is designing and evaluating a transportation concept, the RRollway. The program demonstrates a technically feasible and low-cost method of performing an origin-destination survey on a high-speed highway. Methods of data collecting and evaluation of costs are discussed and the capabilities of the system are analyzed.

70820 Shafer, E.L., Jr., Hamilton, J.F., Jr. A COMPARISON OF FOUR COMMUNICATION TECHNIQUES USED IN OUTDOOR RECREATION SURVEYS. Upper Darby, Penna., Northeastern Forest Experiment Station 26 p. 1966. Ref., tables. Unpublished typewritten copy.

Four surveys, alternatively sampling from the same population -- using the same questionnaire as well as using personal interview, mail, handout and delayed mail techniques -- are in more detail than normally is expected, and for this reason may be of more value. The questionnaire and a list of cited references are included.

70821 Sigafos, R. S., Sigafos, M. D. Flood history told by tree growth. NATUR. HIST. 75(7):50-55, Aug.-Sept. 1966. Illus., photos.

There is a need to understand the relationship between erosion and deposition in flood plains during floods and the behavior of streams in flood. The U.S. Geological Survey is therefore making studies of flood plain trees and shrubs. Housing developments, industry, recreation areas, highways and farm buildings continue to be built in these areas in spite of the periodical overflow of the streams' banks.

70822 Soil Conservation Society of America. Conservation Research Committee. Conservation research. J. SOIL WAT. CONSERV. 22(2):82-84, Mar.-Apr. 1967.

Presented for member perusal and comments is a proposed position statement of the Soil Conservation Society of America.

70823 Stevens, J. B. Recreation benefits from water pollution control. WAT. RESOURC. RES. 2(2): 167-182, 2nd Quart. 1966. Ref., illus., tables.

A methodology for estimating direct recreational benefits from water pollution control was developed through a model of biological and behavioral relationships involved in sports angling. A biological production function was envisaged between inputs of angling effort and the output, or yield, of fish taken. The marginal product,

angling success per unit of effort, was taken to represent the quality of the recreation experience. Water pollution would cause deteriorations in dissolved oxygen, temperature, or toxicity characteristics of the water, thus shifting the production function downward and causing reductions in angling success, angling effort, and recreational value of the fishery. Demand equations and "success-effort" elasticities were estimated for three estuarial sports fisheries, and the methodology was illustrated by means of an assumed reduction in angling success. The direct recreational benefits were identified as the consumer surplus that would result from the prevention of water pollution.

70824 Stillman, C. W. THE PRICE OF OPEN SPACE-THE NEED FOR RESEARCH. Cornwall, N. Y. Harvard Black Rock Forest. 7 p. 1966. Ref. (Black Rock Forest Papers, No. 28).

The cause of conservation is loud in the land, and still there is a cry for open space for people to use. Research is needed on just what satisfactions people derive from open space and wild land, how many people need the experience, the costs to provide it, and how these social values will change in the future. The concepts of outdoor learning, the process of education for children, the general educational approach for a free society and outdoor education as a discipline for our universities are areas of analysis. Recreation requiring touchable environment vs. only seeable environment are separate needs demanding separate recreational approaches. Planning is needed to

satisfy all our needs for a long time to come, and adjustments are needed in the laws for public use of private lands.

70825 Taylor, C. C., Russell, J. R. Outdoor recreation development in the South: Problem areas for economic research. In Southern Land Economics Research Committee. OUTDOOR RECREATION RESEARCH IN THE SOUTH. Blacksburg, Va., Virginia Polytechnic Institute. p.13-18, 1967. Ref. (Southern Land Economics Research Committee. Publication no.5, April 1967)

The authors stress the importance of additional research in river basin programs, and resource conservation and development projects in the South to supply a greater need for outdoor recreation. This situation is a result of an increased population; a change in the social and economic structure; and a population shift towards urbanization. It is suggested that studies would be beneficial on the effects of more leisure time and costs for development of recreational activity and resource use. Research programs related to outdoor recreation of several Federal agencies are described.

70826 Terjung, W. H. Annual physioclimatic stresses and regimes in the United States. GEOGR. REV. 57(2):225-240, Apr. 1967. Maps, tables.

"This study proposes a quantitative approach to the problem of climatic stress by introducing three annual indices: annual Cumulative Stress (CS), which measures the cumulative relative variations and departures from the human state of comfort;

Proportional Cumulative Stress (PCS), which measures on an annual basis the percentage of heat stress in relation to cold stress; and Annual Physioclimatic Regime (APR), which attempts to synthesize the annual march of physiological climates, their regionalization, and their degree of fluctuation and frequency. The last classification also indicates the possible sources and causes of the various stresses as exhibited in the other indices. All these indices are applied to the United States, including Alaska and Hawaii."

70827 Underhill, A. H. OUTDOOR RECREATION - TRAINING AND RESEARCH. Remarks at the Interdisciplinary Natural Resources Seminar, Ohio State University, Columbus, Ohio, May 8, 1967. 9p. 1967.

The Assistant Director for State Local and Private Programs, Bureau of Outdoor Recreation, presents a review of outdoor recreation developments within the past 20 years, including a brief description of the establishment and functions of the Bureau of Outdoor Recreation; training for career employment in outdoor recreation; and areas where only fragmentary knowledge exist in which research is needed.

70828 U.S. Congress. Senate. Committee on Government Operations. ESTABLISH A SELECT SENATE COMMITTEE ON TECHNOLOGY AND THE HUMAN ENVIRONMENT. Hearings. Washington, Govt. Print. Off. 409p. 1967. Illus., photos, tables. (90th Congress, 1st sess).

Senator Edmund L. Muskie, Chairman, Subcommittee on Intergovernmental Relations, Committee on Government Operations, introduced S.Res.68 to

create a select committee on technology and the human environment to study problems caused by advancing technology and ways that science and technology can resolve these problems. Such a committee would be in existence for only 3 years, but it would publish a comprehensive report and supplement the work of the standing committees which do not have the time to develop such information for themselves. Testimony on the need to study the impact of modern technology on man and his environment was presented by scientists, educators, government officials, and labor leaders. K38 G7 90:1 E.

70829 U.S. Congress. Senate. Committee on Public Works. AIR POLLUTION - 1967. Hearings. Washington, Govt. Print. Off. 4 pts. 1967. Maps, illus., photos, tables. (90th Congress. 1st sess.).

Part 1 of the Hearings is concerned with the problems and progress on the control of automobile exhaust emissions which are a major contributor to air pollution. Parts 2-4 are a record of the Hearings held in Washington, D.C., Denver, Colo., and St. Louis, Mo. on Bill S.780, which provides for: other pollutants that are harmful to environmental health, wildlife and vegetation; Federal assistance to public and private agencies or parties for administering the programs; research on climate and weather and the effects of pollutants on weather conditions. K38 P9 90:1 G Pts. 1-4.

70830 U.S. Dept. of Agriculture, Association of State Universities and Land Grant Colleges. A NATIONAL PROGRAM OF RESEARCH FOR AGRICULTURE. Washington. Dept. of Agriculture. 272p. 1966. Illus., tables.

This report - submitted to the Subcommittee on Agriculture of the Senate Appropriations Committee by Secretary of Agriculture Orville L. Freeman and David D. Henry, chairman of the Association of State Universities and Land Grant Colleges - was based on the first comprehensive study of both public and private agricultural and forest research programs ever made in the United States. The study included the first detailed inventory of the more than 16,000 individual research projects conducted by the Department of Agriculture and the States, as well as the agricultural research performed by private industry. In its projection of future research needs, an over-all increase of 38% by 1972 in the level of scientific man-power engaged in publicly-supported agricultural research was recommended. One of the goals is the improvement of community services and environment. Problem areas requiring research effort are identified and projections for scientist-man years within the next decade are tabulated. Six areas in need of research for the sound development and management of both public and private recreation resources are enumerated.

70831 U.S. Office of Water Resources Research. WATER RESOURCES RESEARCH CATALOG. VOL. 2. Washington, Govt. Print. Off. 1451 p. 1966.

"This volume 2 of the Water Resources

Research Catalog is published pursuant to the Water Resources Research Act of 1964. Both Federally-supported and non-Federally supported research are combined in this single issue which describes 3,905 research projects active as of July 1966, and lists 2,507 principal investigators." GB701 U5 v.2

70832 Verduin, J. How rich are our waters, and who is responsible? IZAAK WALTON MAG. 32(3):14-15, Mar. 1967. Photos.

Problems of algae in our polluted streams caused by excessive supplies of phosphorous are discussed. The possible solution of some of these problems by the use of "lagoons" for sewage treatment is presented.

70833 Wernick, S. L., Gaufin, R. F., Gaufin, A. R. Concentrations and effects of pesticides in aquatic environments. AMER. WAT. WORKS ASS. J. 58(5):601-608, May 1966. Ref., tables.

Biologists, pesticide manufacturers, the Food and Drug Administration and others are concerned about the use of pesticides and their fate in the environment. A nation-wide study is planned to sample water, soils, plants, and animals including humans in an effort to determine pesticide levels in all areas of the United States. It is recognized that safety limits should not be established on the basis of ever smaller amounts of insecticide which can be detected.

70834 Wennergren, E. B. Surrogate pricing of outdoor recreation. LAND ECON. 43(1):112-116, Feb. 1967.

An analysis of sample data provides empirical evidence to support the logic of the empirical argument relative to the importance of variable costs in determining the quantity of outdoor recreation used. The number of trips taken by sample boaters was statistically related only to variable travel and on site costs. The small size of the estimating equation provides a rather restricted basis for explaining variation in trip numbers but supports the earlier observation that consumer demand is a function of factors other than price. The model illustrates the importance of various types of money costs in the consumer calculus relative to their demand for outdoor recreation.

70835 Westman, J. R. The imbalance of nature. CONSERVATIONIST. 21(3): 2-6, Dec. - Jan. 1966/67.

A review of some of the research showing how high population triggers biological mechanisms in wildlife and causes marked declines and behavior twists. It is indicated that the old simple idea of "the balance of nature" must take a new direction in conservation with a more effective management and use of our wildlife resources.

70836 Whitten, J. L. THAT WE MAY LIVE. Princeton, Van Nostrand. 251p. 1966. Ref.

Long-standing public fears of those invaluable chemicals called pesticides inspires a book on the history and application of their use and evaluates the biological findings

against them. The author concludes that these agents are necessary adjuncts to an abundant life.
SB959 W55

70837 Wilke, L. A. Research for the Gulf Coast. SOUTHW. HOL. 20 (7):48, July 1966.

This article discusses the recreational and commercial facilities at Port Aransas and the new research laboratory for study of the fishing in the western gulf. Secretary of the Dept. of the Interior, Stewart L. Udall, stresses the economic effects of salt water fishing.

70838 Williams, H. G., Jr. Outdoor recreation education and the role of research. N. Y. FOREST. 24(2):17-19, May 1967.

A member of the faculty of the New York State College of Forestry discusses relationships which exist among outdoor recreation, research, and education. Current status of outdoor recreation education and the kind needed are considered. The role of education and research in relation to the professional in the field is clarified. Short-term workshops, training sessions, and similar brief meetings could be beneficial to managers to alert them to procedural changes or new possibilities, but such sessions frequently have little educational value over the long term. More mid-career level development and enrichment programs are needed. People take leaves of absence from their jobs to return to an educational center and pursue a course of study. Four specific recommendations are made to educate a person in outdoor recreation management more effectively and provide

more productive relationships among research, outdoor recreation and education.

70839 York, T. Perspective on interdisciplinary research needs for public outdoor recreation programs. In Southern Land Economics Research Committee. OUTDOOR RECREATION RESEARCH IN THE SOUTH. Blacksburg, Va., Virginia Polytechnic Institute. p.19-32, 1967 (Southern Land Economics Research Committee. Publication no.5, April 1967)

Consideration is given to the general functions of "action agencies" involved in outdoor recreation, the support research needs in agencies where economists may make valuable contributions, and to an organizational plan in which top priority research work can be financed and coordinated without duplication. The author contends there is a need for trained personnel in the behavioral, physical, ecological and managerial sciences directly related to outdoor recreation because a single discipline cannot provide major contributions to the development of outdoor recreation research programs. Research institutions in Federal, local and State governments located at geographic regions with characteristic problems would be helpful in integrating research programs. Appendices contain: (1) a partial list of existing Federal legislation to support available acquisition of recreational lands; (2) "top priority research needs in economics;" (3) a classification of topics in environmental, managerial, planning and development, and behavioral research relating to aspects of recreation.

70840 Buchheister, C.W. A. Starker Leopold. Audubon Medalists -- 1966. AUDUBON, 69(1):20-21, Jan.-Feb. 1967. Photo.

Carl W. Buchheister, President, National Audubon Society, presented the Audubon Medal, highest honor of the National Audubon Society to Dr. A. Starker Leopold, son of the famous naturalist, Aldo Leopold, on November 15, 1966, at the conclusion of the Society's convention in Sacramento, California. This article relates Dr. Leopold's achievements, publications, and particular contributions to science and conservation. In addition, the article includes brief accounts about the other 12 Audubon Medalists.

70841 Davis, M.C. The influence of Emerson, Thoreau, and Whitman... on the early American naturalists-- John Muir and John Burroughs. LIV. WILDERN. 30(95):18-23, Winter 1966/67. Ref., photos.

A comparison of Burroughs and Muir shows they failed to establish a recognizable philosophy concerning the relationships among God, Man and Nature. Their writings covered a wide variety of plant and animal life, biologically, ecologically and poetically. Biographical sketches are provided in the paper and the contacts between these naturalists and the transcendentalists, Emerson and Thoreau and Whitman, are related. An evaluation of the influence of transcendentalism on the writings of the naturalists can be drawn.

70842 Goff, P.E. A philosophy for naturalists. CAN. AUDUBON, 29(2):52-55, Mar.-Apr. 1967. Illus.

Concepts covering the management or nonmanagement of natural areas lead to varying philosophies for those programming interpretation to the public. The viewpoint expressed is that to achieve a proper perspective on wilderness man should be considered a thing apart from nature. Naturalists who manage areas to preserve various stages in ecological succession leave themselves open to criticism. It is difficult to analyze feelings, but it is generally conceded that those aspects which are closer to being natural arouse greater feelings of enjoyment and appreciation, and conversely, the more man processes an area, the less appealing it becomes. It is more rational to separate man from nature and concede that there are no natural areas but only areas which are close to being natural. This is better than to include man by considering his works as part of nature and accepting his changing the entire earth. It is important to preserve natural areas because such areas embody the heritage of human body, mind, and spirit.

70843 McKinley, D. The wisdom of the trees. EXPLORER, 8(3):6-9, 27, Fall 1966. Photos.

A philosophy about forests is presented.

70844 Madson, J. Hunting milestones. FLA. WILDL. 20(8):6-7, Jan. 1967.

Conservation milestones in the management of our hunting resources are listed and some of the most important men in the conservation movement are mentioned.

70845 Martinson, A.D. Mount Rainier National Park. First years. FOR. HIST. 10(3):26-33, Oct. 1966. Ref., photos.

This article relates the history of Mount Rainier National Park in Washington from the inception of the movement to create it during the 1880's to the actual establishment on March 2, 1899. The author states the problems of boundaries, controversy over the name of the Park, and the development of roads and trails.

70846 Theodore Roosevelt. Sportsman of the century. OUTD. OKLA. 23(1):16-18, Jan. 1967. Photo.

At a banquet sponsored by the Winchester Centennial Commission, 100 conservationists, sportsmen, political leaders, industrialists and journalists honored the late President Theodore Roosevelt as the "sportsman of the century" on the 108th anniversary of his birthday. A compilation of highlights in Roosevelt's life as a sportsman, naturalist, and conservationist is presented.

70847 Wolfe, R.I. Recreational travel: The new migration. CAN. GEOGR. 10(1):1-14, Jan.-Feb. 1966.

A philosophical examination of recreational travel as one of the three characteristic migrations of our age.

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	70303,70309		70262,70265
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	70403,70420		70316,70340
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	70502,70512		70399,70405
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Alabama Conservation.
Montgomery, Alabama Department
of Conservation

Alaska Sportsman. Juneau,
Alaska Northwest Publishing Co.

Amateur Athlete. Lynn, Mass.,
Amateur Athlete Union

American City. N.Y.,
Buttenheim Publishing Corp.

American Cycling. Oakland,
Calif., American Cycling Press

American Economic Review.
Evanston, Ill., Northwestern
University

American Fisheries Society.
Transactions. Lawrence,
Kans., Allen Press, Inc.

American Forests. Washington,
D.C., American Forestry
Association

American Highways. Washington,
D.C., American Association of
State Highway Officials

American Motorcycling.
Westerville, Ohio, West Camp
Press, Inc.

American Motorist. Gettysburg,
Pa., American Automobile
Association

American Racing Pigeon News.
Morristown, Pa., Thelma H.
Snyder

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American Rifleman. Washington,
D.C., National Rifle Association
of America

American Water Works Association.
Journal. Lancaster, Pa., American
Water Works Association, Inc.

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Calif., American Whitewater
Affiliation

Amusement Business. Cincinnati,
Billboard Publishing Co.

Appalachian Trailway News. Washington,
D.C., Appalachian Trail Conference,
Inc.

Arizona Highways. Phoenix, Arizona
Highway Department

Arizona Review. Tucson, University
of Arizona

Arizona Wildlife Sportsman.
Phoenix, Lincoln Publishing Co.

Athletic Journal. Evanston, Ill.,
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Atlantic Naturalist. Washington,
D.C., Audubon Society

Audubon. N.Y., National Audubon
Society

Audubon Field Notes. New York,
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Badger Sportsman. Chilton, Wis.,
Times-Journal Co.

B

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Better Roads. Chicago, Ill., Better Roads

Boy's Life. New Brunswick, N.J., Boy Scouts of America

C

Camping Guide. N.Y., Rajo Publications, Inc.

Camping Magazine. Martinsville, Ind., American Camping Association

Canadian Audubon. Toronto, Canadian Audubon Society

Canadian Geographer. Montreal, Canadian Association of Geography

Caves and Karst. Castro Valley, Calif., Cave Research Associates

Colorado Outdoors. Denver, Colo., Department of Game, Fish and Parks

Conservation Catalyst. New York, Belle W. Baruch Foundation

Conservationist. N.Y., New York State Department

Cry California. Sacramento, Calif., California Tomorrow

D

Desert. Palm Desert, Calif., Desert Magazine

D

Dude Rancher. Billings, Mont., Dude Rancher's Association

E

Earth Science. Chicago, Earth Science Publishing Co.

Economist. London, Eng., Economist Newspaper Limited

Explorer. Cleveland, Ohio, Natural Science Museum

Extension Service Review. Washington, D.C., Government Printing Office

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